APRIL 2010
SEMI-ANNUAL MONITORING OF
GROUNDWATER AND SURFACE WATER

LINCOLN COUNTY LANDFILL
PERMIT # 55-03
LINCOLN COUNTY
CROUSE, NORTH CAROLINA
S&ME PROJECT No. 1356-07-004

Prepared for:

LINCOLN COUNTY
5291 Crouse Road
Crouse, North Carolina 28033

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July 6, 2010

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).
- In Accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- 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):

Consultant - S&ME, INC.

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

Name: Courtney R. Withers, P.G. Phone: 704-523-4726

E-mail: crwithers@smeinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Lincoln County Landfill	5291 Crouse Rd. Crouse, NC 28033	55-03	.0500 and .1600	April 19-21, 2010

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 or explosive methane gas limits 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.

Facility Representative Name (Print)	Title	(Area Code) Telephone Number
Courtney R. Withers	Project Geologist	704-523-4726

Signature: Courtney R. Withers Date: 7/6/10

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 2203 GEOLOGIST COURTNEY REID WITHERS

Revised 10/2006

TABLE OF CONTENTS

Section **Page**

1.0 INTRODUCTION **1**
2.0 GROUNDWATER LEVELS AND FLOW DATA **1**
3.0 ANALYTICAL DATA **1**
3.1 MONITORING WELL SAMPLING 1
3.1.1 MSW Area "E" and Phase 1 ..... *1*
3.1.1.1 Volatile Organic Compounds (VOCs) *2*
3.1.1.2 Inorganic Constituents (Metals) *2*
3.1.2 MSW Phase 2 ..... *3*
3.1.2.1 Volatile Organic Compounds (VOCs) *3*
3.1.2.2 Inorganic Constituents (Metals) *3*
3.1.3 MSW Phase 3 ..... *4*
3.1.3.1 Volatile Organic Compounds (VOCs) *4*
3.1.3.2 Inorganic Constituents (Metals) *4*
3.1.4 C&D Landfill Phase 1 and Phase 2 ..... *4*
3.1.4.1 Volatile Organic Compounds (VOCs) *4*
3.1.4.2 Inorganic Constituents (Metals) *5*
3.1.4.3 Classical Chemistry Compounds *5*
3.2 SURFACE WATER SAMPLING 5
3.3 LEACHATE SAMPLING 6
4.0 STATISTICAL ANALYSIS **6**
4.1 VOLATILE ORGANIC COMPOUNDS (VOCS) 8
4.2 TOTAL METALS 8

TABLES

TABLE 1: Water Level Elevations
TABLE 2: Detected Analytes in Monitoring Wells for MSW Area "E" and Phase 1
TABLE 3: Detected Analytes in Monitoring Wells for MSW Phase 2
TABLE 4: Detected Analytes in Monitoring Wells for MSW Phase 3
TABLE 5: Detected Analytes in Monitoring Wells for C&D Phase 1
TABLE 6: Detected Analytes in Monitoring Wells for C&D Phase 2
TABLE 7: Detected Analytes in Surface Water Samples
TABLE 8: Detected Analytes in Leachate

FIGURES

FIGURE 1: Groundwater Surface Map

APPENDICES

APPENDIX I: Well Sampling Logs and Laboratory Reports
APPENDIX II: Statistical Analysis Procedure Sheets

1.0 INTRODUCTION

S&ME, Inc. (S&ME) was contracted by Lincoln County to provide groundwater, surface water, and leachate monitoring services at the Lincoln County Landfill located at 5291 Crouse Road in Crouse, North Carolina. This monitoring event was conducted April 19 through April 21, 2010.

This report presents the results of the first sampling event for the year 2010 at the facility. The facility's monitoring network includes one (1) background well (MW-1A), twenty-eight (28) compliance wells, six (6) surface water sample locations, and one (1) leachate sample. The next sampling event is scheduled for October 2010.

2.0 GROUNDWATER LEVELS AND FLOW DATA

The water table elevations and our interpretation of the groundwater surface expressed as a potentiometric map along with groundwater flow direction are shown on ***Figure 1***. Based upon the groundwater elevations in the vicinity of the landfill, groundwater in this area is projected to flow primarily to the south, with secondary flow toward the southwest and southeast toward tributaries located east and west of the landfills. Groundwater levels for the monitoring wells are presented in ***Table 1***.

3.0 ANALYTICAL DATA

Analytical results for the landfill monitoring wells, surface water samples, and leachate sample are summarized in Tables 2 through 8. The detections above the NCAC 2L groundwater standards (2L Standards), NCAC 2B surface water standards, and/or SW GWP standard are highlighted in grey. Well sampling logs containing field measurements of pH, conductivity, temperature and water levels are included in ***Appendix I***.

3.1 MONITORING WELL SAMPLING

3.1.1 MSW Area "E" and Phase 1

MSW Area "E" and Phase 1 monitoring well locations were sampled for Appendix I volatile organic constituents (VOCs) and Appendix I metals. In addition to Appendix I VOCs and metals, the groundwater analysis for background monitoring well MW-1A also included inorganic constituents iron and manganese. A summary of the detected analytes associated with this Phase of the landfill is included as ***Table 2***. The monitoring well network associated with these areas include background well MW-1A, compliance wells MW-8, MW-9, and MW-10R which monitor the recently abandoned leachate pond, and compliance wells MW-12 through MW-20 which monitor down gradient and side gradient of the unlined MSW landfill Area "E" and the lined MSW landfill identified as Phase 1.

Based on the laboratory analytical reports, nineteen volatile organic compounds and seventeen metals were detected in MSW Area "E" and Phase 1 monitoring wells during the April 2010 monitoring event.

3.1.1.1 Volatile Organic Compounds (VOCs)

Background monitoring well MW-1A had a detection of Chloroform at a concentration of 22 micrograms per liter (µg/L), which is below the 2L Standard of 70 µg/L. Both Bromoform and Chloroform have historically been detected in monitoring well MW-1A which are commonly associated with chlorinated municipal water. Due to MW-1A's close proximity to Crouse Road, it is likely the detection of Chloroform in the well is from a leaking nearby municipal water or sewer line.

Monitoring wells MW-8 through MW-20 contained eighteen volatile organic compounds. Of the VOCs detected, six compounds were detected above their respective 2L standard: 1,1-Dichloroethane, 1,2-Dichloroethane, Benzene, Chloromethane, Tetrachloroethene, and Vinyl Chloride. Please note that monitoring wells MW-8, MW-9, MW-10R, MW-12, MW-15, and MW-18 had no VOC detections above the method detection limit (MDL).

The analytical results for monitoring well MW-13 indicated that 1,1-Dichloroethane, 1,2-Dichloroethane, Benzene, Chloromethane, Tetrachloroethene, and Vinyl Chloride were detected above their respective 2L Standards at concentrations of 13, 0.73 J, 6, 3.2, 3.1, and 1.2 µg/L, respectively.

The results for monitoring well MW-16R indicated that Benzene, and Vinyl Chloride were detected above their respective 2L Standard at concentrations of 5.5, and 5 µg/L, respectively.

The results for monitoring wells MW-17 and MW-19 indicated that Tetrachloroethene was detected at concentrations of 0.96 J and 1.4 µg/L, respectively, which are above the 2L Standard of 0.7 µg/L.

The results for monitoring well MW-20 indicated that 1,1-Dichloroethane was detected at a concentration of 6.7 µg/L, which is above the 2L Standard of 6 µg/L.

Monitoring wells MW-13, MW-14, MW-16R, MW-17, MW-19 and MW-20 monitor down gradient and side gradient of the of the unlined Area "E" landfill and the volatile organic constituents detected in these wells are associated with the unlined landfill.

3.1.1.2 Inorganic Constituents (Metals)

The monitoring wells associated with the MSW Area "E" and Phase 1 landfills had three or more Appendix I metals detected. Four constituents were detected above their respective SW GWP Standard: Antimony, Cobalt, Thallium, and Vanadium. Antimony was detected above its SW GWP Standard of 1.4 µg/L in monitoring well MW-14 at a concentration of 2.62 J µg/L. Cobalt was detected above its SW GWP Standard of 70 µg/L in monitoring well MW-13 at a concentration of 260 µg/L. Thallium was detected above its SW GWP Standard of 0.28 µg/L in monitoring wells MW-13 and MW-16R at

concentrations of 0.830 J,B and 0.804 J,B µg/L, respectively. Please note that thallium was also detected in the associated laboratory method blank at a concentration of 0.357 J µg/L. Vanadium was detected above its SW GWP Standard of 3.5 µg/L in monitoring well MW-8 at a concentration 4.12 J µg/L.

Total metal concentrations in groundwater sampled from wells are often dependant on the turbidity or suspended particulates (from the aquifer formation) retrieved with the groundwater sample. The turbidity is a function of the sampling method, well construction, how the well was developed, and the grain size/consolidation of the lithologic unit sampled. Since the unfiltered samples are acidified in the field at the time of collection, metals contained within the particulates are dissolved into the sample. Thus, the presence of turbidity in groundwater samples often results in elevated (false positive) analytical results for total metal concentrations. Therefore, the presence of elevated total metal concentrations does not necessarily correlate with groundwater impact.

Based on historical water quality data, the background well and each of the compliance wells (excluding MW-19) have contained at least one total metal at concentrations above the 2L Standards. Metal concentrations in several wells have fluctuated below and above detection limits. In the background well MW-1A, beryllium, cadmium, chromium, cobalt, iron, lead, silver, and vanadium have been detected at concentrations above the 2L Standards. Based on this data, it appears that the majority of the metals detected within the monitoring wells are either naturally occurring or a product of turbidity during sampling.

3.1.2 MSW Phase 2

MSW Phase 2 monitoring well locations were sampled for Appendix I volatile organic compounds (VOCs) and Appendix I metals. A summary of the detected analytes associated with this Phase of the landfill is included as ***Table 3***. The monitoring well network associated with this Phase is compliance wells MW-21 and MW-24 which monitor side gradient of the landfill and MW-25 and MW-25A which monitor the Phase 2 sump.

3.1.2.1 Volatile Organic Compounds (VOCs)

No volatile organic compounds were detected in the MSW Phase 2 compliance monitoring wells during the April 2010 sampling event.

3.1.2.2 Inorganic Constituents (Metals)

The monitoring wells associated with the Phase 2 landfill had three or more Appendix I metals detections, however only one constituent was detected above its SW GWP Standard: Vanadium.

Vanadium was detected in monitoring well MW-24 at a concentration of 8.33 J µg/L, which is above the SW GWP Standard of 3.5 µg/L.

As previously discussed above, it appears that the majority of the metals detected within the monitoring wells are either naturally occurring or a product of turbidity during sampling.

3.1.3 MSW Phase 3

MSW Phase 3 monitoring well locations were sampled for Appendix I volatile organic compounds (VOCs) and Appendix I metals. A summary of the detected analytes associated with this phase of the landfill is included in ***Table 4***. The monitoring well network associated with this area include compliance wells MW-32R and MW-34 which monitor down gradient and side gradient of the landfill and MW-33/33A and MW-35/35A which monitor the Phase 3 sump locations.

3.1.3.1 Volatile Organic Compounds (VOCs)

No volatile organic compounds were detected in the MSW Phase 3 compliance monitoring wells during the April 2010 sampling event.

3.1.3.2 Inorganic Constituents (Metals)

The monitoring wells associated with the Phase 3 landfill had three or more Appendix I metals detected, however only one constituent was detected above its respective SW GWP Standard: Vanadium.

Vanadium was detected in monitoring well MW-32R at a concentration of 3.79 J µg/L, which is above the SW GWP Standard of 3.5 µg/L.

As previously discussed above, it appears that the majority of the metals detected within the monitoring wells are either naturally occurring or a product of turbidity during sampling.

3.1.4 C&D Landfill Phase 1 and Phase 2

C&D Landfill Phase 1 and Phase 2 monitoring well locations were sampled for Appendix I volatile organic compounds (VOCs); Appendix I metals plus mercury, manganese, and iron; and four classical chemistry compounds: Chloride, Total Dissolved Solids, Sulfate, and Alkalinity. A summary of the detected analytes associated with the C&D Landfills is included as ***Table 5*** and ***6***. The monitoring well network associated with the C&D landfills include compliance wells MW-26, MW-27, and MW-28 which monitor Phase 1 and MW-29, MW-30, and MW-31 which monitor Phase 2.

3.1.4.1 Volatile Organic Compounds (VOCs)

Monitoring wells MW-26, MW-29, MW-30, and MW-31 had no volatile organic compounds detected during the April 2010 monitoring event; however the laboratory analytical results indicated that monitoring wells MW-27 and MW-28 had at least one VOC detection.

Monitoring well MW-27 had detections of cis-1,2-Dichloroethene, Benzene, and total Xylenes at concentrations of 0.43 J, 0.45 J, and 0.40 J µg/L, respectively, which are

below their respective 2L Standards. Monitoring well MW-28 had a detection of Tetrachloroethene at a concentration of 3.1 µg/L which is above the 2L Standard of 0.7 µg/L.

3.1.4.2 Inorganic Constituents (Metals)

The monitoring wells associated with the C&D landfills had five or more metals detections, and three constituents were detected above their respective 2LStandard and/or SW GWP Standard: Iron, Manganese, and Vanadium.

Iron was detected in C&D landfill monitoring wells MW-26, MW-29, MW-30, and MW-31 at concentrations of 631, 26,600, 340, and 19,000 µg/L, respectively, which are above the NCAC 2L Standard of 300 µg/L. Manganese was detected in C&D landfill monitoring wells MW-27, and MW-28 at concentrations of 283 and 71.1 µg/L, respectively, which are above the NCAC 2L Standard of 50 µg/L. Vanadium was detected in MW-27 and MW-29 at concentrations of 5.26 J and 12.2 J µg/L, respectively, which is above the GWP ST Standard of 3.5 µg/L.

As previously discussed above, it appears that the majority of the metals detected within the monitoring wells are either naturally occurring or a product of turbidity during sampling. This is the sixth sampling event in which iron and manganese have been included in the analysis for the C&D wells and the fifth sampling event in which they were included in the analysis for the background well MW-1A. Iron and manganese have been detected in MW-1A in all five sampling events that have included their analysis. Also, the C&D wells were noted in the field to be visually turbid during sampling.

3.1.4.3 Classical Chemistry Compounds

Total Dissolved Solids, Chloride, Sulfate, and Alkalinity were analyzed for in the C&D landfill wells. The results of which are summarized in Tables 5 and 6. Please note that none of the classical chemistry compounds analyzed for in the C&D landfill wells exceeded any of the established 2L Standards and/or SW GWP Standards.

3.2 SURFACE WATER SAMPLING

Lincoln County Landfill has five (5) surface water sampling locations positioned in the tributaries located to the east, south, and west of the landfill as indicated on the attached ***Figure 1***. The surface water samples were analyzed for Appendix I VOCs and Appendix I metals plus Mercury, Iron and Manganese. Beginning with the April 2010 sampling event, a sixth surface water sample location was added to the semi-annual monitoring plan, SW-6. The addition of SW-6 to the monitoring plan was in response to the January 2009 leachate release at the facility. SW-6 is located at the discharge of the lowland area downgradient from the leachate holding tanks as indicated on the attached ***Figure 1***. SW-6 was analyzed for Appendix I VOCs, Appendix I metals, Biologic Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Nitrate/Nitrite, Sulfate, Total Suspended Solids (TSS), and Phosphorous. A summary of the detected analytes associated with the surface water samples is included as ***Table 7***.

Based on the laboratory analytical results, volatile organic compounds were not detected in surface water samples SW-1 through SW-5 during the April 2010 sampling event. However, two volatile organic compounds were detected in surface water sample SW-6: Acetone and Toluene at concentrations of 7.4 J and 1.1 ug/L, respectively, which are below their respective 2L Standards.

Five or more metals were detected in each of the surface water sampling locations SW-1, SW-2, SW-3, SW-4, SW-5, and SW-6; however, only two constituents exceeded their respective NCAC 2B Standard: Copper and Iron.

Copper was detected in SW-2, SW-3, and SW-4 at concentrations of 7.73 J, 13.7, and 13 µg/L, respectively, which are above the 2B Standard of 7 µg/L. Iron was detected in SW-1, SW-2, SW-3, and SW-5 at concentrations ranging from 1040 to 24,900 µg/L, which are above the 2B Standard of 1000 µg/L.

3.3 LEACHATE SAMPLING

A sample of the leachate from the leachate collection system for the landfill was collected from the lift station prior to entering the on-site leachate holding tanks. The leachate sample was analyzed for Appendix I VOCs, Appendix I metals, Biologic Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Nitrate/Nitrite, Sulfate, Total Suspended Solids (TSS), and Phosphorous. A summary of the detected analytes for the leachate is included as ***Table 8***.

4.0 STATISTICAL ANALYSIS

S&ME compared the water quality data with the 2L Standards and the SW GWP standards and performed a statistical evaluation of the data. S&ME utilized two statistical methods to evaluate statistically significant increases between the compliance monitoring wells and the background monitoring well (MW-1A).

The first method utilized was a one-way parametric Analysis of Variance (Parametric ANOVA). The parametric ANOVA analysis is recommended by the 1992 guidance document for parameters with fewer than 15% non-detects in a specific well.

The second method used was the Kruskal-Wallis non-parametric rank method. The Kruskal-Wallis method is recommended by the 1992 guidance document for parameters that have 15% to 90% non-detects in a specific well.

Both analyses were run for each well with a detection, then compared. If both methods showed a statistical increase for a detected parameter in a well, then both sets of data were used. If only one method showed a statistical increase for a detected parameter in a well, then the data was used for the method that corresponded with the percent non-detects. The table below summarizes the statistical increases found by both methods. Copies of the analytical procedures used to perform both analysis used by the ChemStat® software are included in Appendix II. A copy of the statistical analysis results, for parameters with detections, has been included on the attached CD.

Parameter	Well I.D.	Statistical Analysis Method		Percent Non-Detects	Statistical Increase	Notes
		Parametric ANOVA	Kruskal Wallis			
Acetone	MW-13		X	65	Yes	2
Benzene	MW-13	X	X	47	Yes	
	MW-16	X		73	No	
Chloroethane	MW-13	X	X	35	Yes	2
	MW-16		X	52	Yes	1
1,1-Dichloroethane	MW-13	X	X	3	Yes	
	MW-16	X	X	36	Yes	2
	MW-19		X	48	Yes	2
	MW-20	X	X	48	Yes	
c-1,2,-Dichloroethene	MW-13		X	65	Yes	2
Methylene Chloride	MW-13	X	X	44	Yes	2
	MW-16	X	X	46	Yes	2
	MW-19		X	55	Yes	1
	MW-20		X	48	Yes	2
Tetrachloroethene	MW-13		X	68	Yes	
Trichloroethene	MW-13		X	68	Yes	2
Vinyl Chloride	MW-16		X	36	Yes	
Xylenes (Total)	MW-13	X	X	54	Yes	2
	MW-16	X	X	57	Yes	2
Arsenic	MW-13		X	59	Yes	2
Barium	MW-15	X	X	30	Yes	2
	MW-32		X	15	No	2
	MW-33		X	15	No	2
	MW-34		X	15	No	2
	MW-35		X	15	No	2
Beryllium	MW-10	X		65	No	2
	MW-15	X		55	No	2
	MW-32	X		62	No	2
	MW-33	X		77	No	2
	MW-34	X		69	No	2
	MW-35	X		69	No	2
Cadmium	MW-8	X		71	No	1
Chromium	MW-17	X		52	No	2
Cobalt	MW-8		X	33	Yes	2
	MW-12		X	41	Yes	2
	MW-13	X	X	0	Yes	
	MW-16		X	12	No	2
Lead	MW-8	X		58	No	1
Vanadium	MW-8	X		38	No	
	MW-10	X		39	No	2
Zinc	MW-12	X	X	0	Yes	2

X indicates that there was statistical increase shown using the indicated analytical method.
1 – Non-detect in 2010
2- Was not detected above its respective 2L standard or SW GWP standard.

4.1 VOLATILE ORGANIC COMPOUNDS (VOCs)

Acetone, Benzene, Chloroethane, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Methylene Chloride, Tetrachloroethene, Trichloroethene, and total Xylenes were found to be at statistically significant higher levels than the background well for MW-13.

Chloroethane, 1,1-Dichloroethane, Methylene Chloride, total Xylenes and Vinyl Chloride were found to be at statistically significant higher levels than the background well for MW-16.

1,1-Dichloroethane and Methylene Chloride were found to be at statistically significant higher levels than the background well for MW-19 and MW-20.

Monitor wells MW-13, MW-16, MW-19, and MW-20 are located downgradient from the unlined closed landfill Area “E”.

4.2 TOTAL METALS

Total metal concentrations in groundwater sampled from wells are often dependent on the turbidity or suspended particulates (from the aquifer formation) retrieved with the groundwater sample. The turbidity is a function of the sampling method, well construction, how the well was developed, and the grain size/consolidation of the lithologic unit sampled. Since the unfiltered samples are acidified in the field at the time of sample collection, metals contained within the particulates are dissolved into the water sample. Thus, the presence of turbidity in groundwater samples often results in elevated (false positive) analytical results for total metal concentrations. Therefore, the presence of elevated total metal concentrations does not necessarily correlate with groundwater impact.

Based on the historical water quality data, the upgradient well and each of the downgradient wells (excluding MW-19, 22, 24 and 25) have contained at least one total metal at concentrations above the 2L Standards. The statistical evaluation indicates that six of the downgradient wells (MW-8, 12, 13, and 15) contain at least one metal at a statistically significant level higher than the background well. Metal concentrations in several wells have fluctuated between non-detect and detect. In the background well, MW-1A, beryllium, cadmium, chromium, cobalt, lead, silver, and vanadium have been detected at concentrations above the 2L Standards.

TABLES

Table 1
April 2010 - Water Level Elevations
Lincoln County Landfill
S&ME Project No. 1356-07-004

Well Identification		Top of Casing Elevation (ft - MSL)	Depth to Groundwater From Top of Casing (ft)	Groundwater Elevation (ft - MSL)
Background Well	MW-1A	929.27	38.18	891.09
Leachate Lagoon	MW-8	840.03	27.10	812.93
Leachate Lagoon	MW-9	840.20	29.19	811.01
Leachate Lagoon	MW-10R	834.97	21.82	813.15
Area "E" and Phase 1	MW-12	827.57	4.62	822.95
Area "E" and Phase 1	MW-13	872.78	31.65	841.13
Area "E" and Phase 1	MW-14	871.44	30.09	841.35
Area "E" and Phase 1	MW-15	847.86	25.04	822.82
Area "E" and Phase 1	MW-16R	876.39	12.99	863.40
Area "E" and Phase 1	MW-17	899.64	32.24	867.40
Area "E" and Phase 1	MW-18	861.41	25.68	835.73
Area "E" and Phase 1	MW-19	862.40	26.33	836.07
Area "E" and Phase 1	MW-20	860.00	14.72	845.28
Phase 2	MW-21	855.91	36.42	819.49
Phase 2	MW-24	841.13	22.64	818.49
Phase 2	MW-25	838.73	25.09	813.64
Phase 2	MW-25A	838.84	25.45	813.39
C&D Phase 1	MW-26	871.19	12.10	859.09
C&D Phase 1	MW-27	880.90	17.18	863.72
C&D Phase 1	MW-28	915.68	42.39	873.29
C&D Phase 2	MW-29	879.97	34.92	845.05
C&D Phase 2	MW-30	886.35	48.63	837.72
C&D Phase 2	MW-31	879.88	29.39	850.49
Phase 3	MW-32R	827.25	13.95	813.30
Phase 3	MW-33	819.38	12.54	806.84
Phase 3	MW-33A	818.67	12.97	805.70
Phase 3	MW-34	832.77	24.64	808.13
Phase 3	MW-35	839.64	26.41	813.23
Phase 3	MW-35A	839.65	28.63	811.02

Notes:

(ft - MSL) - Feet Mean Sea Level

(ft) - Feet

The "A" suffix on the well locations indicates the deep well of the pair.

Notes for Tables 2 through 8
Lincoln County Landfill
S&ME Project No. 1356-07-004

Notes:

(1) ug/L = micrograms per liter (parts per billion)
(2) mg/L = milligrams per liter (parts per million)
(3) 15A NCAC 2L = North Carolina Groundwater Quality Standards
(4) 15A NCAC 2B = North Carolina Surface Water Quality Standards
(5) GWP ST = Solid Waste Groundwater Protection Standard
(6) NE = No established standard
(7) Bold and highlighted indicates above 15A NCAC 2L, 15A NCAC 2B, or SW GWP standard
(8) Compounds not shown were not detected.
(9) SWSL = North Carolina Department of Environmtent and Natural Resources Solid Waste Section Limit established in 2007
(10) NA = Not Analyzed
(11) J = Analyte detected is between the Method Detection Limit (MDL) and the SWSL
(12) B = Analyte was detected in the associated method blank
(13) D = The sample was analyzed at dilution

Table 2
April 2010 - Detected Analytes in Monitoring Wells for MSW Area "E" and Phase 1
Lincoln County Landfill
S&ME Project No. 1356-07-004

EPA Appendix I Volatile Organic Compounds Method 8260 (ug/L)	NCDENR SWSL	15A NCAC 2L	Soild Waste GWP ST	MW-1A	MW-8	MW-9	MW-10R	MW-12	MW-13	MW-14	MW-15	MW-16R	MW-17	MW-18	MW-19	MW-20
1,1-Dichloroethane	5	6	NE						**13**	2.3 J		4.6 J			5.6	**6.7**
1,2-Dichloroethane	1	0.4	NE						**0.73 J**							
1,4 - Dichlorobenzene	1	6	NE						3.8			2.1				
2-Butanone	100	4000	NE						3.2 J							
cis-1,2,-Dichloroethene	5	70	NE						4.5 J			5.4			0.53 J	0.77 J
Acetone	100	6000	NE						37 J				5.7 J			
Benzene	1	1	NE						**6**			**5.5**				0.68 J
Chlorobenzene	3	50	NE						0.59 J			1.4 J				
Chloroethane	10	3000	2800						1.4 J							
Chloromethane	1	3	NE						**3.2**							
Chloroform	5	70	NE	22												
Ethylbenzene	1	600	NE						0.98 J							
Methylene chloride	1	5	NE						2.2			2.8				3.8
Tetrachloroethene	1	0.7	NE						**3.1**	0.50 J			**0.96 J**		**1.4**	0.61 J
Toluene	1	600	NE						1.5							
Trichloroethene	1	3	NE						2.2						0.76 J	0.75 J
Trichlorofluoromethane	1	2000	NE												0.46 J	
Vinyl chloride	1	0.03	NE						**1.2**			**5**				
Xylenes (total)	5	500	NE						9.2			5.8				0.78 J
EPA Appendix I Metals Method 6010B/6020 (ug/L)																
Antimony	6	NE	1.4	0.319 J		0.426 J			0.263 J	**2.62 J**					0.536 J	
Arsenic	10	10	NE						9.25 J			8.85 J				
Barium	100	700	NE	20.5 J	38.9 J	31.3 J	45.3 J	142	106	21.3 J	67.6 J	268	51.3 J	41.8 J	24.6 J	59.5 J
Beryllium	1	NE	4	0.178 J	0.186 J		0.101 J	0.153 J	0.124 J		0.331 J		0.182 J			0.151 J
Cadmium	1	2	NE					0.446 J		0.463 J						
Chromium	10	10	NE	2.06 J	2.04 J	2.61 J	1.62 J					4.22 J	1.27 J			
Cobalt	10	NE	70		1.15 J			15.7	**260**			18.2	27.6			
Copper	10	1000	NE	16.8	18	16.9	18.3	16.2	19.1	19.3	15.1	11.4	16.1	16	20.2	15.3
Iron	300	300	NE	123 J												
Lead	10	15	NE						4.11 J			5.33 J				
Manganese	50	50	NE	7.65 J												
Nickel	50	100	NE					4.42 J	25.6 J			8.83 J	31.2 J			
Selenium	10	20	NE									2.07 J				
Silver	10	20	NE						6.37 J			8.32 J				
Thallium	5.5	NE	0.28						**0.830 J,B**			**0.804 J,B**				
Vanadium	25	NE	3.5		**4.12 J**	1.89 J								1.40 J		
Zinc	10	1000	NE	7.61 J	7.14 J	6.33 J	13.5	55.1	7.71 J	26.4		15.1	7.98 J		30.1	

Table 3
April 2010 - Detected Analytes in Monitoring Wells for MSW Phase 2
Lincoln County Landfill
S&ME Project No. 1356-07-004

EPA Appendix I Volatile Organic Compounds Method 8260 (ug/L)	**NCDENR SWSL**	**15A NCAC 2L**	**Soild Waste GWP ST**	**MW-21**	**MW-24**	**MW-25**	**MW-25A**
No Volatile Organic Compounds Detected in MSW Phase 2 Wells							
EPA Appendix I Metals Method 6010B/6020 (ug/L)							
Antimony	6	NE	1.4				1.08 J
Barium	100	700	NE	22.7 J	68.2 J	176	35.6 J
Beryllium	1	NE	4	0.180 J	0.550 J	0.154 J	
Chromium	10	10	NE		4.31 J	3.74 J	5.81 J
Cobalt	10	NE	70		2.52 J		
Copper	10	1000	NE	15	18.8	17.6	18.1
Nickel	50	100	NE		1.95 J		
Vanadium	25	NE	3.5		**8.33 J**		3.16 J
Zinc	10	1000	NE		17.3	15.2	5.93 J

Table 4
April 2010 - Detected Analytes in Monitoring Wells for MSW Phase 3
Lincoln County Landfill
S&ME Project No. 1356-07-004

EPA Appendix I Volatile Organic Compounds Method 8260 (ug/L)	**NCDENR SWSL**	**15A NCAC 2L**	**Soild Waste GWP ST**	**MW-32R**	**MW-33**	**MW-33A**	**MW-34**	**MW-35**	**MW-35A**
No Volatile Organic Compounds Detected in MSW Phase 3 Wells									
EPA Appendix I Metals Method 6010B/6020 (ug/L)									
Antimony	6	NE	1.4			0.936 J			
Barium	100	700	NE	28.8 J	52.3 J	7.44 J	230	50.3 J	33.8 J
Beryllium	1	NE	4	0.314 J	0.277 J		1.28	0.203 J	0.103 J
Chromium	10	10	NE	1.72 J					2.46 J
Cobalt	10	NE	70				4.23 J		
Copper	10	1000	NE	17.4	18	18.2			
Lead	10	15	NE	2.34 J					
Nickel	50	100	NE				2.34 J		
Thallium	5.5	NE	0.28				0.156 J		
Vanadium	25	NE	3.5	**3.79 J**					2.32 J
Zinc	10	1000	NE	13.4	6.28 J	20.6	16.2	7.29 J	

Table 5
April 2010 - Detected Analytes in Monitoring Wells for C&D Phase 1
Lincoln County Landfill
S&ME Project No. 1356-07-004

EPA Appendix I Volatile Organic Compounds Method 8260 (ug/L)	**NCDENR SWSL**	**15A NCAC 2L**	**Soild Waste GWP ST**	**MW-26**	**MW-27**	**MW-28**
cis-1,2,-Dichloroethene	5	70	NE		0.43 J	
Benzene	1	1	NE		0.45 J	
Tetrachlorethene	1	0.7	NE			**3.1**
Xylenes (Total)	5	500	NE		0.40 J	
EPA Appendix I Metals Method 6010B/6020 (ug/L)						
Arsenic	10	10	NE	4.16 J		
Barium	100	700	NE	45.7 J	217	64.8 J
Beryllium	1	NE	4		0.630 J	0.135 J
Chromium	10	10	NE	3.20 J		
Cobalt	10	NE	70		6.24 J	3.11 J
Copper	10	1000	NE			2.08 J
Iron	300	300	NE	**631**	175 J	174 J
Manganese	50	50	NE	29.2 J	**283**	**71.1**
Nickel	50	100	NE		7.82 J	2.93 J
Vanadium	25	NE	3.5	1.52 J	**5.26 J**	2.06 J
Zinc	10	1000	NE	4.38 J	15.2	7.22 J
Classical Chemistry Compounds (mg/L)						
Chloride	NE	250	NE	3.6 J	8.9	2.9 J
Sulfate as SO4	250	250	NE	3.2 J	2.7 J	1.5 J
Total Dissolved Solids	NE	500	NE	52	82	38
Total Alkalinity	NE	NE	NE	20	32	

Table 6
April 2010 - Detected Analytes in Monitoring Wells for C&D Phase 2
Lincoln County Landfill
S&ME Project No. 1356-07-004

EPA Appendix I Volatile Organic Compounds Method 8260 (ug/L)	**NCDENR SWSL**	**15A NCAC 2L**	**Soild Waste GWP ST**	**MW-29**	**MW-30**	**MW-31**
No Volatile Organic Compounds Detected in C&D Phase 2						
EPA Appendix I Metals Method 6010B/6020 (ug/L)						
Barium	100	700	NE	29.4 J	35.6 J	16.1 J
Beryllium	1	NE	4	0.376 J		0.144 J
Cobalt	10	NE	70	2.67 J		
Copper	10	1000	NE	10.8	7.09 J	
Chromium	10	10	NE	9.38 J		2.96 J
Iron	300	300	NE	**26600**	**340**	**19000**
Lead	10	15	NE	4.59 J		
Manganese	50	50	NE	48.8 J	7.56 J	35.4 J
Nickel	50	100	NE	5.28 J		
Vanadium	25	NE	3.5	**12.2 J**		2.82 J
Zinc	10	1000	NE	17.5	4.97 J	6.30 J
Classical Chemistry Compounds (mg/L)						
Chloride	NE	250	NE	3.7 J	2.9 J	3.0 J
Sulfate as SO4	250	250	NE	8.4 J	3.2 J	9.7 J
Total Dissolved Solids	NE	500	NE	120	70	68
Total Alkalinity	NE	NE	NE	37		

Table 7
April 2010 - Detected Analytes in Surface Water Samples
Lincoln County Landfill
S&ME Project No. 1356-07-004

EPA Appendix I Volatile Organic Compounds Method 8260 (ug/L)	**15A NCAC 2B**	**SW-1**	**SW-2**	**SW-3**	**SW-4**	**SW-5**	**SW-6**
Acetone	2000						7.4 J
Toluene	11						1.1
No Volatile Organic Compounds Detected in Surface Water Samples							
EPA Appendix I Metals Method 6010B/6020 (ug/L)							
Antimony	640				0.422 J		2.60 J
Arsenic	50						46.4 J
Barium	200000	57.1 J	32.2 J	59.4 J	22.1 J	67.6 J	
Chromium	74	1.18 J		13.8		1.23 J	
Cobalt	270	3.67 J		3.00 J		29.5	4.77 J
Copper	7		**7.73 J**	**13.7**	**13**		5.28 J
Iron	1000	**2380**	**1040**	**5490**	455	**24900**	NA
Lead	25			5.38 J			2.17 J
Manganese	NE	349	132	70.4	46.4 J	1530	NA
Nickel	88	2.91 J		2.89 J		2.26 J	
Vanadium	NE	1.45 J		16.6 J		1.74 J	1.50 J
Zinc	50	17.3	21.5	11.3		6.66 J	14.5
Classical Chemistry Compounds (mg/L)							
BOD	NE	NA	NA	NA	NA	NA	6.3
COD	NE	NA	NA	NA	NA	NA	57
Sulfate as SO4	NE	NA	NA	NA	NA	NA	1.8 J
Phosphorous	NE	NA	NA	NA	NA	NA	0.16
Nitrate as N	NE	NA	NA	NA	NA	NA	0.034 J
Nitrite as N	2.7	NA	NA	NA	NA	NA	0.0079 J
Nitrate/Nitrite as N	NE	NA	NA	NA	NA	NA	0.042 J
Total Alkalinity	NE	NA	NA	NA	NA	NA	31
Total Suspended Solids	NE	NA	NA	NA	NA	NA	22

Table 8
April 2010 - Detected Analytes in Leachate
Lincoln County Landfill
S&ME Project No. 1356-07-004

EPA Appendix I Volatile Organic Compounds Method 8260 (ug/L)	**NCDENR SWSL**	**Lift Station**
1,2-Dichloroethane	5	6.1 J,D
2-Butanone	100	2900 D
2-Hexanone	50	21 J,D
4-Methyl-2-pentanone	100	32 J,D
Acetone	100	1000 D
Xylenes (total)	5	5.1 J,D
Toluene	1	110 D
EPA Appendix I Metals Method 6010B/6020 (ug/L)		
Antimony	NE	1.98 J
Arsenic	10	32.7
Barium	100	438
Chromium	10	51.1
Cobalt	10	35.7
Copper	10	10.1
Lead	10	12
Nickel	50	47.5 J
Selenium	10	16.9
Silver	10	6.14 J
Vanadium	25	40
Zinc	10	234
Classical Chemistry Compounds (mg/L)		
BOD	NE	1200
COD	NE	2000
Sulfate as SO4	250	21 J
Phosphorous	NE	4.5 D
Nitrate as N	10	0.096 J
Nitrite as N	1000	0.054 J
Nitrate/Nitrite as N	NE	0.15
Total Alkalinity	NE	930 D
Total Suspended Solids	NE	3800

FIGURES

LEGEND

MW-10	EXISTING MONITORING WELL
S-1	SURFACE WATER SAMPLING LOCATION
	GROUNDWATER SURFACE (4/19-21/10)
814.96	GROUNDWATER ELEVATION (ft-msl)
	PROPERTY BOUNDARY

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.

REFERENCE:
TOPOGRAPHIC SURVEY FOR LINCOLN COUNTY LANDFILL BY SUTTLES SURVEYING, P.A., DATED: APRIL 2, 1997.

LINCOLN COUNTY LANDFILL
1800 CROUSE ROAD
CROUSE, NORTH CAROLINA

S&ME
8701 SOUTHERN PINE BLVD.
CHARLOTTE, N.C. 28273
(704) 523-4726
WWW.SMEINC.COM

NO.	DATE	DESCRIPTION	BY

GROUNDWATER SURFACE MAP
APRIL 19-21, 2010

LINCOLN COUNTY LANDFILL
CROUSE, NORTH CAROLINA

S&ME ENGINEERING LICENSE NO. F-0176	
DRAWN BY: CLD	CHECKED BY:
DESIGNED BY: CRW	APPROVED BY: JRP
PROJECT NUMBER 1356-07-004	
SCALE: AS SHOWN	DATE: 6-25-10
DRAWING: 1	OF: 1

DRAWING PATH: G:\STDAV\LINCOLN COUNTY\07-004\GWATER_APRIL-10.DWG

APPENDIX I

WELL SAMPLING LOGS AND LABORATORY REPORTS

Surface Water and Leachate Samples
Lincoln County Landfill
S&ME Project 1356-07-004

Location	Date	Time Sampled	Sample Observations
SW-1	4/21/2010	1130	Slightly Turbid
SW-2	4/21/2010	1430	Slightly Turbid
SW-3	4/21/2010	1445	Clear
SW-4	4/21/2010	1405	Clear
SW-5	4/21/2010	1400	Slightly Turbid
SW-6	4/21/2010	0935	Moderately Turbid
Lift Station	4/21/2010	0920	(Sampled from Pump #2 Lift Station) Heavily Turbid

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-1A

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 3.3
Depth to Water (ft) 38.18
Depth to Base of Well (ft) 57.00
(well casing volume = water column*0.174)
Water Column (ft) 18.82
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/19/2010
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1058	5.82	18.1	16.9
	3.3	1102	5.35	17.1	1.5
	6.5	1106	5.27	17.1	0
Final	9.8	1110	5.36	16.8	0

Well Sampling Data

Sampling Date 4/20/2010
Sampling Time 0850
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments wasps under protective cover lid & conductivity probe submerged but malfunctioning
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-8

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 0.68
Depth to Water (ft) 27.10
Depth to Base of Well (ft) 31.00
(well casing volume = water column*0.174)
Water Column (ft) 3.90
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2010
Purging Equipment bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	0:00	5.40	15.8	20
	0.68	0:00	5.60	15.7	20
	1.36	0:00	5.50	15.2	20
Final	2.04	0:00	5.40	15.2	20

Well Sampling Data

Sampling Date 4/21/2010
Sampling Time 0:00
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-9

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 7.2
Depth to Water (ft) 29.19
Depth to Base of Well (ft) 70.50
(well casing volume = water column*0.174)
Water Column (ft) 41.31
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2010
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1130	7	16.5	40
	7.2	1137	6.3	15.2	40
	14.4	1144	6.4	15.4	40
Final	21.6	1151	6.6	15.4	40

Well Sampling Data

Sampling Date 4/21/2010
Sampling Time 0955
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-10R

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 1.7
Depth to Water (ft) 21.82
Depth to Base of Well (ft) 31.50
(well casing volume = water column*0.174)
Water Column (ft) 9.68
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2010
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1230	6.20	16.4	60
	1.7	1233	6.20	15.6	50
	3.4	1236	6.20	15.6	50
Final	5.1	1239	6.30	15.9	50

Well Sampling Data

Sampling Date 4/21/2010
Sampling Time 1025
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-12

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 2.4
Depth to Water (ft) 4.62
Depth to Base of Well (ft) 18.50
(well casing volume = water column*0.174)
Water Column (ft) 13.88
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2010
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1308	5.90	24.2	150
	2.4	1314	5.90	22.8	150
	4.8	1320	6.00	22.9	160
Final	7.2	1326	5.90	23.4	160

Well Sampling Data

Sampling Date 4/21/2010
Sampling Time 1045
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-13

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 1.5
Depth to Water (ft) 31.65
Depth to Base of Well (ft) 40.50
(well casing volume = water column*0.174)
Water Column (ft) 8.85
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/19/2010
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1156	6.00	17.4	261
	1.5	1200	6.13	16.9	330
	3.1	1204	6.06	17.0	347
Final	4.6	1208	6.10	17.1	327

Well Sampling Data

Sampling Date 4/20/2010
Sampling Time 0915
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-14

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 8.0
Depth to Water (ft) 30.09
Depth to Base of Well (ft) 76.00
(well casing volume = water column*0.174)
Water Column (ft) 45.91
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/19/2010
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1150	6.28	18.0	61.9
	8.0	1158	6.15	17.1	64.5
	16.0	1208	6.19	17.1	69.9
Final	24.0	1214	6.16	17.1	66.9

Well Sampling Data

Sampling Date 4/20/2010
Sampling Time 0920
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-15

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 1.0
Depth to Water (ft) 25.04
Depth to Base of Well (ft) 30.50
(well casing volume = water column*0.174)
Water Column (ft) 5.46
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/19/2010
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1310	5.54	16.5	0
	1.0	1311	5.43	15.7	0
	1.9	1312	5.41	15.5	0
Final	2.9	1313	5.36	15.2	0

Well Sampling Data

Sampling Date 4/20/2010
Sampling Time 0945
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments wasps under protective cover lid & conductivity probe submerged but malfunctioning
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-16R

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 1.5
Depth to Water (ft) 12.99
Depth to Base of Well (ft) 21.60
(well casing volume = water column*0.174)
Water Column (ft) 8.61
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/19/2010
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1127	6.01	15.1	536
	1.5	1130	6.14	13.9	549
	3.0	1133	6.15	13.6	571
Final	4.5	1136	6.22	13.6	595

Well Sampling Data

Sampling Date 4/20/2010
Sampling Time 0900
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-17

Sampling Personnel	(1)	Brian Wilson	(2)	Courtney Withers
Weather Conditions	Sunny/Warm			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	0.7
Depth to Water (ft)	32.24		
Depth to Base of Well (ft)	36.50	(well casing volume = water column*0.174)	
Water Column (ft)	4.26		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 4/19/2010 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1514	5.84	19.3	67.6
	0.7	1515	5.82	17.4	74.2
	1.5	1516	5.86	16.6	69.0
Final	2.2	1517	5.81	16.2	68.0

Well Sampling Data

Sampling Date	4/20/2010
Sampling Time	1100
Sampling Equipment	disposable teflon bailer
Sample Observations	clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments

Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-18

Sampling Personnel	(1)	Brian Wilson	(2)	Courtney Withers
Weather Conditions	Sunny/Warm			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	1.1
Depth to Water (ft)	25.68		
Depth to Base of Well (ft)	32.00	(well casing volume = water column*0.174)	
Water Column (ft)	6.32		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 4/19/2010 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1236	6.06	14.7	163.9
	1.1	1238	6.03	13.9	162.4
	1.5	1240	6.22	13.6	155.2
Final					

Well Sampling Data

Sampling Date	4/20/2010
Sampling Time	0930
Sampling Equipment	disposable teflon bailer
Sample Observations	clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments dry at 1.5 gallons / wasps under protective cover lid
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-19

Sampling Personnel	(1)	Brian Wilson	(2)	Courtney Withers
Weather Conditions	Sunny/Warm			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	7.9
Depth to Water (ft)	26.33		
Depth to Base of Well (ft)	72.00	(well casing volume = water column*0.174)	
Water Column (ft)	45.67		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 4/19/2010 Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1235	6.11	16.3	86.6
	7.9	1242	6.01	14.9	82.2
	15.9	1250	6.05	15.8	86.7
Final	23.8	1256	6.00	15.7	90.7

Well Sampling Data

Sampling Date	4/20/2010
Sampling Time	0935
Sampling Equipment	disposable teflon bailer
Sample Observations	clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments fire ants at base of protective cover
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-20

Sampling Personnel	(1)	Brian Wilson	(2)	Courtney Withers
Weather Conditions	Sunny/Warm			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	2.1
Depth to Water (ft)	14.72		
Depth to Base of Well (ft)	27.00	(well casing volume = water column*0.174)	
Water Column (ft)	12.28		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 4/19/2010 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1441	5.50	16.2	71.3
	2.1	1443	5.56	14.3	45.3
	4.3	1445	5.56	14.2	34.4
Final	6.4	1447	5.51	14.3	43.9

Well Sampling Data

Sampling Date	4/20/2010
Sampling Time	0910
Sampling Equipment	disposable teflon bailer
Sample Observations	clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments wasps under protective cover lid
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-21

Sampling Personnel	(1)	Brian Wilson	(2)	Courtney Withers
Weather Conditions	Sunny/Warm			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	1.3
Depth to Water (ft)	36.42		
Depth to Base of Well (ft)	44.11	(well casing volume = water column*0.174)	
Water Column (ft)	7.69		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 4/19/2010 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1424	5.56	16.9	14.7
	1.3	1425	5.58	15.6	19.8
	2.7	1426	5.54	15.7	42.9
Final	4.0	1427	5.58	15.8	29.8

Well Sampling Data

Sampling Date	4/20/2010
Sampling Time	0955
Sampling Equipment	disposable teflon bailer
Sample Observations	clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments need to replace lock
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-24

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 1.6
Depth to Water (ft) 22.64
Depth to Base of Well (ft) 31.60
(well casing volume = water column*0.174)
Water Column (ft) 8.96
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2010
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1251	5.80	15.4	50
	1.6	1255	5.70	15.4	80
	3.1	1258	5.80	15.1	90
Final	4.7	1301	5.70	25.6	80

Well Sampling Data

Sampling Date 4/21/2010
Sampling Time 1035
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-25

Sampling Personnel	(1)	Brian Wilson	(2)	Courtney Withers
Weather Conditions	Sunny/Warm			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	1.1
Depth to Water (ft)	25.09		
Depth to Base of Well (ft)	31.50	(well casing volume = water column*0.174)	
Water Column (ft)	6.41		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 4/20/2010 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1206	6.00	17.3	140
	1.1	1207	6.10	17.0	140
	2.2	1208	6.20	17.2	140
Final					

Well Sampling Data

Sampling Date	4/21/2010
Sampling Time	1015
Sampling Equipment	disposable teflon bailer
Sample Observations	clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments dry at 3 gallons
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-25A

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 6.0
Depth to Water (ft) 25.45
Depth to Base of Well (ft) 60.00
(well casing volume = water column*0.174)
Water Column (ft) 34.55
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2010
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1205	6.80	17.6	40
	6.0	1208	6.90	16.6	40
	12.0	1212	6.80	16.6	40
Final	18.0	1216	6.80	16.5	40

Well Sampling Data

Sampling Date 4/21/2010
Sampling Time 1020
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-26

Sampling Personnel	(1)	Brian Wilson	(2)	Courtney Withers
Weather Conditions	Sunny/Warm			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	1.9
Depth to Water (ft)	12.10		
Depth to Base of Well (ft)	23.00	(well casing volume = water column*0.174)	
Water Column (ft)	10.90		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 4/20/2010 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1448	6.20	13.3	60
	1.9	1453	5.90	12.6	60
	3.8	1458	6.10	12.8	60
Final	5.7	1503	6.00	12.8	60

Well Sampling Data

Sampling Date	4/21/2010
Sampling Time	1145
Sampling Equipment	disposable teflon bailer
Sample Observations	clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3
Alkalinity	(1) 500 mL plastic bottle	None
TDS	(1) 250 mL plastic bottle	None
Chloride/Sulfate	(1) 125 mL plastic bottle	None

Comments

Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-27

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 1.7
Depth to Water (ft) 17.18
Depth to Base of Well (ft) 27.00
(well casing volume = water column*0.174)
Water Column (ft) 9.82
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2010
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1508	5.50	14.4	120
	1.7	1510	5.50	14.2	110
	3.4	1512	5.50	14.0	120
Final	5.1	1514	5.50	14.0	120

Well Sampling Data

Sampling Date 4/21/2010
Sampling Time 1155
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3
Alkalinity	(1) 500 mL plastic bottle	None
TDS	(1) 250 mL plastic bottle	None
Chloride/Sulfate	(1) 125 mL plastic bottle	None

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-28

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 2.1
Depth to Water (ft) 42.39
Depth to Base of Well (ft) 54.50
(well casing volume = water column*0.174)
Water Column (ft) 12.11
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2010
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1515	5.60	15.8	30
	2.1	1520	5.60	16.0	30
	4.2	1525	5.60	15.9	20
Final	6.3	1530	5.60	15.9	30

Well Sampling Data

Sampling Date 4/21/2010
Sampling Time 1210
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3
Alkalinity	(1) 500 mL plastic bottle	None
TDS	(1) 250 mL plastic bottle	None
Chloride/Sulfate	(1) 125 mL plastic bottle	None

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-29

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 1.8
Depth to Water (ft) 34.92
Depth to Base of Well (ft) 45.00
(well casing volume = water column*0.174)
Water Column (ft) 10.08
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2010
Purging Equipment Disposable Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1337	6.20	27.2	120
	1.8	1341	6.00	26.3	100
	3.5	1345	6.00	26.4	100
Final	5.3	1349	6.00	25.9	100

Well Sampling Data

Sampling Date 4/21/2010
Sampling Time 1055
Sampling Equipment disposable teflon bailer
Sample Observations slightly turbid

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3
Alkalinity	(1) 500 mL plastic bottle	None
TDS	(1) 250 mL plastic bottle	None
Chloride/Sulfate	(1) 125 mL plastic bottle	None

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-30

Sampling Personnel	(1)	Brian Wilson	(2)	Courtney Withers
Weather Conditions	Sunny/Warm			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	2.7
Depth to Water (ft)	48.63		
Depth to Base of Well (ft)	64.00	(well casing volume = water column*0.174)	
Water Column (ft)	15.37		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 4/20/2010 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1401	5.90	25.4	30
	2.7	1410	5.90	22.5	30
	5.3	1419	6.10	22.5	30
Final	8.0	1428	6.10	22.2	40

Well Sampling Data

Sampling Date	4/21/2010
Sampling Time	1110
Sampling Equipment	disposable teflon bailer
Sample Observations	slightly turbid

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3
Alkalinity	(1) 500 mL plastic bottle	None
TDS	(1) 250 mL plastic bottle	None
Chloride/Sulfate	(1) 125 mL plastic bottle	None

Comments

Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-31

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 1.8
Depth to Water (ft) 29.39
Depth to Base of Well (ft) 40.00
(well casing volume = water column*0.174)
Water Column (ft) 10.61
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2010
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1425	6.20	21.1	60
	1.8	1428	5.70	19.1	30
	3.7	1431	5.60	15.1	30
Final	5.5	1434	5.70	14.9	30

Well Sampling Data

Sampling Date 4/21/2010
Sampling Time 1120
Sampling Equipment disposable teflon bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottle	HNO3
Alkalinity	(1) 500 mL plastic bottle	None
TDS	(1) 250 mL plastic bottle	None
Chloride/Sulfate	(1) 125 mL plastic bottle	None

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-32R

Sampling Personnel (1) Brian Wilson (2) Courtney Withers
Weather Conditions Sunny/Warm
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 2.5
Depth to Water (ft) 13.95
Depth to Base of Well (ft) 28.05
(well casing volume = water column*0.174)
Water Column (ft) 14.10
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/19/2010
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1408	5.63	16.2	47.5
	2.5	1410	5.60	13.8	20.1
	4.9	1413	5.62	13.6	20.6
Final	7.4	1417	5.59	14.0	12.4

Well Sampling Data

Sampling Date 4/20/2010
Sampling Time 1005
Sampling Equipment disposable teflon bailer
Sample Observations slightly turbid

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottles	HNO3

Comments
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-33

Sampling Personnel	(1)	Brian Wilson	(2)	Courtney Withers
Weather Conditions	Sunny/Warm			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	2.2
Depth to Water (ft)	12.54		
Depth to Base of Well (ft)	25.30	(well casing volume = water column*0.174)	
Water Column (ft)	12.76		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 4/19/2010 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1334	5.47	14.2	55.2
	2.2	1338	5.38	13.0	63.6
	4.4	1341	5.66	13.6	64.5
Final	6.7	1345	5.63	13.2	57.2

Well Sampling Data

Sampling Date	4/20/2010
Sampling Time	1020
Sampling Equipment	disposable teflon bailer
Sample Observations	clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottles	HNO3

Comments fire ants near well
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-33A

Sampling Personnel	(1)	Brian Wilson	(2)	Courtney Withers
Weather Conditions	Sunny/Warm			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	9.0
Depth to Water (ft)	12.97		
Depth to Base of Well (ft)	64.55	(well casing volume = water column*0.174)	
Water Column (ft)	51.58		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 4/19/2010 Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1332	7.09	16.9	173.4
	9.0	1340	6.96	15.0	163.2
	17.9	1347	6.86	14.4	147.4
Final	26.9	1353	7.04	16.0	140.3

Well Sampling Data

Sampling Date	4/20/2010
Sampling Time	1015
Sampling Equipment	disposable teflon bailer
Sample Observations	clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottles	HNO3

Comments fire ants near well
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-34

Sampling Personnel	(1)	Brian Wilson	(2)	Courtney Withers
Weather Conditions	Sunny/Warm			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	1.8
Depth to Water (ft)	24.64		
Depth to Base of Well (ft)	35.27	(well casing volume = water column*0.174)	
Water Column (ft)	10.63		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 4/19/2010 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1531	5.00	16.9	0
	1.8	1533	4.86	16.2	0
	3.7	1535	4.80	16.5	0
Final	5.5	1537	5.00	16.3	0

Well Sampling Data

Sampling Date	4/20/2010
Sampling Time	1030
Sampling Equipment	disposable teflon bailer
Sample Observations	clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottles	HNO3

Comments Conductivity probe was submerged but malfunctioning
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-35

Sampling Personnel	(1)	Brian Wilson	(2)	Courtney Withers
Weather Conditions	Sunny/Warm			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	1.9
Depth to Water (ft)	26.41		
Depth to Base of Well (ft)	37.25	(well casing volume = water column*0.174)	
Water Column (ft)	10.84		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 4/19/2010 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1551	5.10	16.7	0
	1.9	1554	5.05	15.8	0
	3.8	1557	5.13	15.5	0
Final	5.7	1600	5.06	15.6	0

Well Sampling Data

Sampling Date	4/20/2010
Sampling Time	1045
Sampling Equipment	disposable teflon bailer
Sample Observations	clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottles	HNO3

Comments Conductivity probe was submerged but malfunctioning
Lab ENCO

Project Name: Lincoln County Landfill
Project Location: Crouse, North Carolina
Project Number: 1356-07-004

Well ID MW-35A

Sampling Personnel	(1)	Brian Wilson	(2)	Courtney Withers
Weather Conditions	Sunny/Warm			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	7.1
Depth to Water (ft)	28.63		
Depth to Base of Well (ft)	69.69	(well casing volume = water column*0.174)	
Water Column (ft)	41.06		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 4/19/2010 Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1550	6.49	17.6	0
	7.1	1555	6.30	15.6	0
	14.3	1600	6.44	15.6	0
Final	21.4	1605	6.58	15.8	0

Well Sampling Data

Sampling Date	4/20/2010
Sampling Time	1050
Sampling Equipment	disposable teflon bailer
Sample Observations	clear

Analytical Data

Method	Container Type and No.	Preservation
Appendix I VOCs	(3) 40 mL glass vials	HCL
Appendix I Metals	(1) 500 mL plastic bottles	HNO3

Comments Conductivity probe was submerged but malfunctioning
Lab ENCO

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

Monday, May 3, 2010

S&ME, Inc. (SM002)

Attn: Courtney Withers

9751 Southern Pine Blvd.

Charlotte, NC 28273

RE: Laboratory Results for
Project Number: 1356-07-004, Project Name/Desc: Lincoln County LF - App Is
ENCO Workorder: C002352

Dear Courtney Withers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, April 22, 2010.

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 97.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 5503-MW1A **Lab ID: C002352-01** **Sampled: 04/20/10 08:50** **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10	13:08	4/27/2010 10:25
EPA 6020A	10/17/10	04/22/10	13:10	5/3/2010 10:08
EPA 7470A	05/18/10	04/22/10	10:02	4/22/2010 15:07
EPA 8260B	05/04/10	04/29/10	11:01	4/29/2010 18:02

Client ID: 5503-MW8 **Lab ID: C002352-02** **Sampled: 04/21/10 09:50** **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/18/10	04/22/10	13:08	4/27/2010 10:37
EPA 6020A	10/18/10	04/22/10	13:10	5/3/2010 10:12
EPA 8260B	05/05/10	04/28/10	14:22	4/29/2010 09:51

Client ID: 5503-MW9 **Lab ID: C002352-03** **Sampled: 04/21/10 09:55** **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/18/10	04/22/10	13:08	4/27/2010 10:40
EPA 6020A	10/18/10	04/22/10	13:10	5/3/2010 09:50
EPA 8260B	05/05/10	04/29/10	11:01	4/29/2010 18:32

Client ID: 5503-MW10R **Lab ID: C002352-04** **Sampled: 04/21/10 10:25** **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/18/10	04/22/10	13:08	4/27/2010 10:42
EPA 6020A	10/18/10	04/22/10	13:10	5/3/2010 10:15
EPA 8260B	05/05/10	04/29/10	11:01	4/29/2010 19:01

Client ID: 5503-MW12 **Lab ID: C002352-05** **Sampled: 04/21/10 10:45** **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/18/10	04/22/10	13:08	4/27/2010 10:51
EPA 6020A	10/18/10	04/22/10	13:10	5/3/2010 10:26
EPA 8260B	05/05/10	04/29/10	11:01	4/29/2010 19:31

Client ID: 5503-MW13 **Lab ID: C002352-06** **Sampled: 04/20/10 09:15** **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10	13:08	4/27/2010 10:54
EPA 6020A	10/17/10	04/22/10	13:10	5/3/2010 10:30
EPA 8260B	05/04/10	04/29/10	11:01	4/29/2010 20:00

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Client ID: 5503-MW14	Lab ID: C002352-07	Sampled: 04/20/10 09:20	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 13:08	4/27/2010 10:56
EPA 6020A	10/17/10	04/22/10 13:10	5/3/2010 10:34
EPA 8260B	05/04/10	04/29/10 11:01	4/29/2010 20:29

Client ID: 5503-MW15	Lab ID: C002352-08	Sampled: 04/20/10 09:45	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 13:08	4/27/2010 10:59
EPA 6020A	10/17/10	04/22/10 13:10	5/3/2010 10:37
EPA 8260B	05/04/10	04/29/10 11:01	4/29/2010 20:59

Client ID: 5503-MW16R	Lab ID: C002352-09	Sampled: 04/20/10 09:00	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 13:08	4/27/2010 11:01
EPA 6020A	10/17/10	04/22/10 13:10	5/3/2010 10:41
EPA 8260B	05/04/10	04/29/10 11:01	4/29/2010 21:28

Client ID: 5503-MW17	Lab ID: C002352-10	Sampled: 04/20/10 11:00	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 13:08	4/27/2010 11:04
EPA 6020A	10/17/10	04/22/10 13:10	5/3/2010 10:45
EPA 8260B	05/04/10	04/29/10 11:01	4/29/2010 21:58

Client ID: 5503-MW18	Lab ID: C002352-11	Sampled: 04/20/10 09:30	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 13:08	4/27/2010 11:06
EPA 6020A	10/17/10	04/22/10 13:10	5/3/2010 10:48
EPA 8260B	05/04/10	04/29/10 11:01	4/29/2010 22:27

Client ID: 5503-MW19	Lab ID: C002352-12	Sampled: 04/20/10 09:35	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 13:08	4/27/2010 11:08
EPA 6020A	10/17/10	04/22/10 13:10	5/3/2010 10:55
EPA 8260B	05/04/10	04/29/10 11:01	4/29/2010 22:57

Client ID: 5503-MW20	Lab ID: C002352-13	Sampled: 04/20/10 09:10	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 13:08	4/27/2010 11:11
EPA 6020A	10/17/10	04/22/10 13:10	5/3/2010 10:59
EPA 8260B	05/04/10	04/29/10 11:01	4/29/2010 23:26

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Client ID: 5503-MW21	Lab ID: C002352-14	Sampled: 04/20/10 09:55	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 13:08	4/27/2010 11:13
EPA 6020A	10/17/10	04/22/10 13:10	5/3/2010 11:09
EPA 8260B	05/04/10	04/29/10 14:55	4/30/2010 04:18

Client ID: 5503-MW24	Lab ID: C002352-15	Sampled: 04/21/10 10:35	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/18/10	04/22/10 13:08	4/27/2010 11:22
EPA 6020A	10/18/10	04/22/10 13:10	5/3/2010 11:13
EPA 8260B	05/05/10	04/29/10 14:55	4/30/2010 04:47

Client ID: 5503-MW25	Lab ID: C002352-16	Sampled: 04/21/10 10:15	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/18/10	04/22/10 13:08	4/27/2010 11:25
EPA 6020A	10/18/10	04/22/10 13:10	5/3/2010 11:17
EPA 8260B	05/05/10	04/29/10 14:55	4/30/2010 05:16

Client ID: 5503-MW25A	Lab ID: C002352-17	Sampled: 04/21/10 10:20	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/18/10	04/22/10 13:08	4/27/2010 11:27
EPA 6020A	10/18/10	04/22/10 13:10	5/3/2010 11:20
EPA 8260B	05/05/10	04/29/10 14:55	4/30/2010 05:45

Client ID: 5503-MW32R	Lab ID: C002352-18	Sampled: 04/20/10 10:05	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 13:08	4/27/2010 11:29
EPA 6020A	10/17/10	04/22/10 13:10	5/3/2010 11:24
EPA 8260B	05/04/10	04/29/10 14:55	4/30/2010 06:15

Client ID: 5503-MW33	Lab ID: C002352-19	Sampled: 04/20/10 10:20	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 13:08	4/27/2010 11:32
EPA 6020A	10/17/10	04/22/10 13:10	5/3/2010 11:27
EPA 8260B	05/04/10	04/29/10 14:55	4/30/2010 06:44

Client ID: 5503-MW33A	Lab ID: C002352-20	Sampled: 04/20/10 10:15	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 13:08	4/27/2010 11:34
EPA 6020A	10/17/10	04/22/10 13:10	5/3/2010 11:31
EPA 8260B	05/04/10	04/29/10 14:55	4/30/2010 07:13

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Client ID: 5503-MW34	Lab ID: C002352-21	Sampled: 04/20/10 10:30	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 10:06	4/23/2010 11:50
EPA 6020A	10/17/10	04/22/10 09:54	4/30/2010 10:04
EPA 8260B	05/04/10	04/29/10 14:55	4/30/2010 07:42

Client ID: 5503-MW35	Lab ID: C002352-22	Sampled: 04/20/10 10:45	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 10:06	4/23/2010 11:52
EPA 6020A	10/17/10	04/22/10 09:54	4/30/2010 10:07
EPA 8260B	05/04/10	04/29/10 14:55	4/30/2010 08:11

Client ID: 5503-MW35A	Lab ID: C002352-23	Sampled: 04/20/10 10:50	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/17/10	04/22/10 10:06	4/23/2010 11:54
EPA 6020A	10/17/10	04/22/10 09:54	4/30/2010 10:11
EPA 8260B	05/04/10	04/29/10 14:55	4/30/2010 08:41

Client ID: 5503-TripBlank	Lab ID: C002352-24	Sampled: 04/20/10 08:50	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	05/04/10	04/29/10 14:55	4/30/2010 09:10

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 5503-MW1A **Lab ID: C002352-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.319	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	20.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.178	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloroform	22		1	0.083	1.0	5	ug/L	EPA 8260B	
Chromium - Total	2.06	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	16.8		1	1.60	10.0	10	ug/L	EPA 6010C	
Iron - Total	123	J	1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	7.65	J	1	1.10	10.0	50	ug/L	EPA 6010C	
Zinc - Total	7.61	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW8 **Lab ID: C002352-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	38.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.186	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	2.04	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.15	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	18.0		1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	4.12	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	7.14	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW9 **Lab ID: C002352-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.426	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	31.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	2.61	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	16.9		1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	1.89	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	6.33	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW10R **Lab ID: C002352-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	45.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.101	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	1.62	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	18.3		1	1.60	10.0	10	ug/L	EPA 6010C	
Zinc - Total	13.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW12 **Lab ID: C002352-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	142		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.153	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.446	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	15.7		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	16.2		1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	4.42	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Zinc - Total	55.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW13 **Lab ID: C002352-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	13		1	0.050	1.0	5	ug/L	EPA 8260B	
1,2-Dichloroethane	0.73	J	1	0.082	1.0	1	ug/L	EPA 8260B	
1,4-Dichlorobenzene	3.8		1	0.10	1.0	1	ug/L	EPA 8260B	
2-Butanone	3.2	J	1	1.0	5.0	100	ug/L	EPA 8260B	
Acetone	37	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Antimony - Total	0.263	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	9.25	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	106		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	6.0		1	0.050	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.124	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	0.59	J	1	0.069	1.0	3	ug/L	EPA 8260B	
Chloroethane	1.4	J	1	0.18	1.0	10	ug/L	EPA 8260B	
Chloromethane	3.2		1	0.050	1.0	1	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	4.5	J	1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	260		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	19.1		1	1.60	10.0	10	ug/L	EPA 6010C	
Ethylbenzene	0.98	J	1	0.10	1.0	1	ug/L	EPA 8260B	
Lead - Total	4.11	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methylene chloride	2.2		1	0.070	1.0	1	ug/L	EPA 8260B	
Nickel - Total	25.6	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	6.37	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Tetrachloroethene	3.1		1	0.099	1.0	1	ug/L	EPA 8260B	
Thallium - Total	0.830	JB	1	0.110	1.00	5.5	ug/L	EPA 6020A	J-01
Toluene	1.5		1	0.053	1.0	1	ug/L	EPA 8260B	
Trichloroethene	2.2		1	0.13	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	1.2		1	0.083	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	9.2		1	0.22	1.0	5	ug/L	EPA 8260B	
Zinc - Total	7.71	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW14 **Lab ID: C002352-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	2.3	J	1	0.050	1.0	5	ug/L	EPA 8260B	
Antimony - Total	2.62	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	21.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.463	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Copper - Total	19.3		1	1.60	10.0	10	ug/L	EPA 6010C	
Tetrachloroethene	0.50	J	1	0.099	1.0	1	ug/L	EPA 8260B	
Zinc - Total	26.4		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW15 **Lab ID: C002352-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	67.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.331	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Copper - Total	15.1		1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW16R **Lab ID: C002352-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	4.6	J	1	0.050	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	2.1		1	0.10	1.0	1	ug/L	EPA 8260B	
Arsenic - Total	8.85	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	268		1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 5503-MW16R **Lab ID: C002352-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Benzene	5.5		1	0.050	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	1.4	J	1	0.069	1.0	3	ug/L	EPA 8260B	
Chromium - Total	4.22	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	5.4		1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	18.2		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	11.4		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	5.33	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methylene chloride	2.8		1	0.070	1.0	1	ug/L	EPA 8260B	
Nickel - Total	8.83	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	2.07	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Silver - Total	8.32	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.804	JB	1	0.110	1.00	5.5	ug/L	EPA 6020A	J-01
Vinyl chloride	5.0		1	0.083	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	5.8		1	0.22	1.0	5	ug/L	EPA 8260B	
Zinc - Total	15.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW17 **Lab ID: C002352-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	5.7	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium - Total	51.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.182	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	1.27	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	27.6		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	16.1		1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	31.2	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrachloroethene	0.96	J	1	0.099	1.0	1	ug/L	EPA 8260B	
Zinc - Total	7.98	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW18 **Lab ID: C002352-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	41.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Total	16.0		1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	1.40	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 5503-MW19 **Lab ID: C002352-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	5.6		1	0.050	1.0	5	ug/L	EPA 8260B	
Antimony - Total	0.536	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	24.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	0.53	J	1	0.075	1.0	5	ug/L	EPA 8260B	
Copper - Total	20.2		1	1.60	10.0	10	ug/L	EPA 6010C	
Tetrachloroethene	1.4		1	0.099	1.0	1	ug/L	EPA 8260B	
Trichloroethene	0.76	J	1	0.13	1.0	1	ug/L	EPA 8260B	
Trichlorofluoromethane	0.46	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Zinc - Total	30.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW20 **Lab ID: C002352-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	6.7		1	0.050	1.0	5	ug/L	EPA 8260B	
Barium - Total	59.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.68	J	1	0.050	1.0	1	ug/L	EPA 8260B	

Client ID: 5503-MW20 **Lab ID: C002352-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Beryllium - Total	0.151	J	1	0.100	1.00	1	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	0.77	J	1	0.075	1.0	5	ug/L	EPA 8260B	
Copper - Total	15.3		1	1.60	10.0	10	ug/L	EPA 6010C	
Methylene chloride	3.8		1	0.070	1.0	1	ug/L	EPA 8260B	
Tetrachloroethene	0.61	J	1	0.099	1.0	1	ug/L	EPA 8260B	
Trichloroethene	0.75	J	1	0.13	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	0.78	J	1	0.22	1.0	5	ug/L	EPA 8260B	

Client ID: 5503-MW21 **Lab ID: C002352-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	22.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.180	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Copper - Total	15.0		1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW24 **Lab ID: C002352-15**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	68.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.550	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	4.31	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	2.52	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	18.8		1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	1.95	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	8.33	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	17.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW25 **Lab ID: C002352-16**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	176		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.154	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	3.74	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	17.6		1	1.60	10.0	10	ug/L	EPA 6010C	
Zinc - Total	15.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW25A **Lab ID: C002352-17**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	1.08	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	35.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	5.81	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	18.1		1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.16	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	5.93	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW32R **Lab ID: C002352-18**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	28.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.314	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	1.72	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	17.4		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.34	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.79	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	13.4		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW33 **Lab ID: C002352-19**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	52.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.277	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Copper - Total	18.0		1	1.60	10.0	10	ug/L	EPA 6010C	
Zinc - Total	6.28	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW33A **Lab ID: C002352-20**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.936	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	7.44	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Total	18.2		1	1.60	10.0	10	ug/L	EPA 6010C	
Zinc - Total	20.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW34 **Lab ID: C002352-21**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	230		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	1.28		1	0.100	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	4.23	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.34	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.156	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Zinc - Total	16.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW35 **Lab ID: C002352-22**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	50.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.203	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Zinc - Total	7.29	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW35A **Lab ID: C002352-23**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	33.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.103	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	2.46	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	2.32	J	1	1.40	10.0	25	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 5503-MW1A
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-01
Sampled: 04/20/10 08:50
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/29/10 18:02	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/29/10 18:02	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/29/10 18:02	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/29/10 18:02	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/10 18:02	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/29/10 18:02	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/10 18:02	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/10 18:02	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/10 18:02	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/10 18:02	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/29/10 18:02	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/29/10 18:02	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/29/10 18:02	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/29/10 18:02	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/10 18:02	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/29/10 18:02	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/29/10 18:02	JKG	
Chloroform [67-66-3] ^	**22**		ug/L	1	0.083	1.0	5	EPA 8260B	04/29/10 18:02	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/29/10 18:02	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/29/10 18:02	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/29/10 18:02	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/29/10 18:02	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/29/10 18:02	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/10 18:02	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/29/10 18:02	JKG	

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Description: 5503-MW1A
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-01
Sampled: 04/20/10 08:50
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/29/10 18:02	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/29/10 18:02	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/29/10 18:02	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0D29019*	*EPA 8260B*	*04/29/10 18:02*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*0D29019*	*EPA 8260B*	*04/29/10 18:02*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0D29019*	*EPA 8260B*	*04/29/10 18:02*	*JKG*	

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Description:	5503-MW1A	**Lab Sample ID:**	C002352-01	**Received:**	04/22/10 08:00
Matrix:	Ground Water	**Sampled:**	04/20/10 08:50	**Work Order:**	C002352
Project:	Lincoln County LF - App Is	**Sampled By:**	Courtney Withers		

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] ^	0.0540	U	ug/L	1	0.0540	0.200	0.2	EPA 7470A	04/22/10 15:07	NLH	

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Description: 5503-MW1A
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-01
Sampled: 04/20/10 08:50
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	**0.319**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/03/10 10:08	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 10:25	JDH	
Barium [7440-39-3] ^	**20.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 10:25	JDH	
Beryllium [7440-41-7] ^	**0.178**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 10:25	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 10:25	JDH	
Chromium [7440-47-3] ^	**2.06**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 10:25	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 10:25	JDH	
Copper [7440-50-8] ^	**16.8**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 10:25	JDH	
Iron [7439-89-6] ^	**123**	J	ug/L	1	22.0	50.0	300	EPA 6010C	04/27/10 10:25	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:25	JDH	
Manganese [7439-96-5] ^	**7.65**	J	ug/L	1	1.10	10.0	50	EPA 6010C	04/27/10 10:25	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 10:25	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 10:08	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:25	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 10:08	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 10:25	JDH	
Zinc [7440-66-6] ^	**7.61**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 10:25	JDH	

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

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Description: 5503-MW8 | **Lab Sample ID:** C002352-02 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 09:50 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/29/10 09:51	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/29/10 09:51	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/29/10 09:51	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/29/10 09:51	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/10 09:51	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/29/10 09:51	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/10 09:51	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/10 09:51	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/10 09:51	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/10 09:51	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/29/10 09:51	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/29/10 09:51	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/29/10 09:51	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/29/10 09:51	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/10 09:51	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/29/10 09:51	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/29/10 09:51	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/29/10 09:51	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/29/10 09:51	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/29/10 09:51	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/29/10 09:51	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/29/10 09:51	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/29/10 09:51	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/10 09:51	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 09:51	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/29/10 09:51	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/29/10 09:51	JKG	

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Description: 5503-MW8 | **Lab Sample ID:** C002352-02 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 09:50 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/29/10 09:51	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0D28024*	*EPA 8260B*	*04/29/10 09:51*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*0D28024*	*EPA 8260B*	*04/29/10 09:51*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0D28024*	*EPA 8260B*	*04/29/10 09:51*	*JKG*	

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Description: 5503-MW8 | **Lab Sample ID:** C002352-02 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 09:50 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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	05/03/10 10:12	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 10:37	JDH	
Barium [7440-39-3] ^	**38.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 10:37	JDH	
Beryllium [7440-41-7] ^	**0.186**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 10:37	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 10:37	JDH	
Chromium [7440-47-3] ^	**2.04**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 10:37	JDH	
Cobalt [7440-48-4] ^	**1.15**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 10:37	JDH	
Copper [7440-50-8] ^	**18.0**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 10:37	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:37	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 10:37	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 10:12	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:37	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 10:12	VLO	
Vanadium [7440-62-2] ^	**4.12**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 10:37	JDH	
Zinc [7440-66-6] ^	**7.14**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 10:37	JDH	

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

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Description: 5503-MW9 | **Lab Sample ID:** C002352-03 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 09:55 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/29/10 18:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/29/10 18:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/29/10 18:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/29/10 18:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/10 18:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/29/10 18:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/10 18:32	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/10 18:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/10 18:32	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/10 18:32	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/29/10 18:32	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/29/10 18:32	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/29/10 18:32	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/29/10 18:32	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/10 18:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/29/10 18:32	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/29/10 18:32	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/29/10 18:32	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/29/10 18:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/29/10 18:32	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/29/10 18:32	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/29/10 18:32	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/29/10 18:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/10 18:32	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 18:32	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/29/10 18:32	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/29/10 18:32	JKG	

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Description: 5503-MW9 | **Lab Sample ID:** C002352-03 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 09:55 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/29/10 18:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*0D29019*	*EPA 8260B*	*04/29/10 18:32*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*68-117*	*0D29019*	*EPA 8260B*	*04/29/10 18:32*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0D29019*	*EPA 8260B*	*04/29/10 18:32*	*JKG*	

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Description: 5503-MW9 | **Lab Sample ID:** C002352-03 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 09:55 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	**0.426**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/03/10 09:50	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 10:40	JDH	
Barium [7440-39-3] ^	**31.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 10:40	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 10:40	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 10:40	JDH	
Chromium [7440-47-3] ^	**2.61**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 10:40	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 10:40	JDH	
Copper [7440-50-8] ^	**16.9**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 10:40	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:40	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 10:40	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 09:50	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:40	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 09:50	VLO	
Vanadium [7440-62-2] ^	**1.89**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 10:40	JDH	
Zinc [7440-66-6] ^	**6.33**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 10:40	JDH	

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

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Description: 5503-MW10R
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-04
Sampled: 04/21/10 10:25
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/29/10 19:01	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/29/10 19:01	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/29/10 19:01	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/29/10 19:01	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/10 19:01	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/29/10 19:01	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/10 19:01	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/10 19:01	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/10 19:01	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/10 19:01	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/29/10 19:01	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/29/10 19:01	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/29/10 19:01	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/29/10 19:01	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/10 19:01	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/29/10 19:01	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/29/10 19:01	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/29/10 19:01	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/29/10 19:01	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/29/10 19:01	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/29/10 19:01	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/29/10 19:01	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/29/10 19:01	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/10 19:01	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 19:01	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/29/10 19:01	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/29/10 19:01	JKG	

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Description: 5503-MW10R
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-04
Sampled: 04/21/10 10:25
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/29/10 19:01	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*0D29019*	*EPA 8260B*	*04/29/10 19:01*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*0D29019*	*EPA 8260B*	*04/29/10 19:01*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*69-110*	*0D29019*	*EPA 8260B*	*04/29/10 19:01*	*JKG*	

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Description: 5503-MW10R
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-04
Sampled: 04/21/10 10:25
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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	05/03/10 10:15	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 10:42	JDH	
Barium [7440-39-3] ^	**45.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 10:42	JDH	
Beryllium [7440-41-7] ^	**0.101**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 10:42	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 10:42	JDH	
Chromium [7440-47-3] ^	**1.62**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 10:42	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 10:42	JDH	
Copper [7440-50-8] ^	**18.3**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 10:42	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:42	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 10:42	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 10:15	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:42	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 10:15	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 10:42	JDH	
Zinc [7440-66-6] ^	**13.5**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 10:42	JDH	

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

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Description: 5503-MW12 | **Lab Sample ID:** C002352-05 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 10:45 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/29/10 19:31	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/29/10 19:31	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/29/10 19:31	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/29/10 19:31	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/10 19:31	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/29/10 19:31	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/10 19:31	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/10 19:31	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/10 19:31	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/10 19:31	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/29/10 19:31	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/29/10 19:31	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/29/10 19:31	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/29/10 19:31	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/10 19:31	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/29/10 19:31	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/29/10 19:31	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/29/10 19:31	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/29/10 19:31	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/29/10 19:31	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/29/10 19:31	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/29/10 19:31	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/29/10 19:31	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/10 19:31	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 19:31	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/29/10 19:31	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/29/10 19:31	JKG	

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Description: 5503-MW12 | **Lab Sample ID:** C002352-05 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 10:45 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/29/10 19:31	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*0D29019*	*EPA 8260B*	*04/29/10 19:31*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*0D29019*	*EPA 8260B*	*04/29/10 19:31*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*87 %*	*69-110*	*0D29019*	*EPA 8260B*	*04/29/10 19:31*	*JKG*	

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Description: 5503-MW12 | **Lab Sample ID:** C002352-05 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 10:45 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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	05/03/10 10:26	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 10:51	JDH	
Barium [7440-39-3] ^	**142**		ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 10:51	JDH	
Beryllium [7440-41-7] ^	**0.153**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 10:51	JDH	
Cadmium [7440-43-9] ^	**0.446**	J	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 10:51	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 10:51	JDH	
Cobalt [7440-48-4] ^	**15.7**		ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 10:51	JDH	
Copper [7440-50-8] ^	**16.2**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 10:51	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:51	JDH	
Nickel [7440-02-0] ^	**4.42**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 10:51	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 10:26	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:51	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 10:26	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 10:51	JDH	
Zinc [7440-66-6] ^	**55.1**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 10:51	JDH	

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

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Description: 5503-MW13 | **Lab Sample ID:** C002352-06 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:15 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/29/10 20:00	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/29/10 20:00	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
1,1-Dichloroethane [75-34-3] ^	**13**		ug/L	1	0.050	1.0	5	EPA 8260B	04/29/10 20:00	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/29/10 20:00	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/10 20:00	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/29/10 20:00	JKG	
1,2-Dichloroethane [107-06-2] ^	**0.73**	J	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**3.8**		ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
2-Butanone [78-93-3] ^	**3.2**	J	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/10 20:00	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/10 20:00	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/10 20:00	JKG	
Acetone [67-64-1] ^	**37**	J	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/10 20:00	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/29/10 20:00	JKG	
Benzene [71-43-2] ^	**6.0**		ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/29/10 20:00	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/29/10 20:00	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/29/10 20:00	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/10 20:00	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
Chlorobenzene [108-90-7] ^	**0.59**	J	ug/L	1	0.069	1.0	3	EPA 8260B	04/29/10 20:00	JKG	
Chloroethane [75-00-3] ^	**1.4**	J	ug/L	1	0.18	1.0	10	EPA 8260B	04/29/10 20:00	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/29/10 20:00	JKG	
Chloromethane [74-87-3] ^	**3.2**		ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**4.5**	J	ug/L	1	0.075	1.0	5	EPA 8260B	04/29/10 20:00	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/29/10 20:00	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/29/10 20:00	JKG	
Ethylbenzene [100-41-4] ^	**0.98**	J	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/29/10 20:00	JKG	
Methylene chloride [75-09-2] ^	**2.2**		ug/L	1	0.070	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
Tetrachloroethene [127-18-4] ^	**3.1**		ug/L	1	0.099	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
Toluene [108-88-3] ^	**1.5**		ug/L	1	0.053	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/29/10 20:00	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/10 20:00	JKG	
Trichloroethene [79-01-6] ^	**2.2**		ug/L	1	0.13	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/29/10 20:00	JKG	
Vinyl chloride [75-01-4] ^	**1.2**		ug/L	1	0.083	1.0	1	EPA 8260B	04/29/10 20:00	JKG	
Xylenes (Total) [1330-20-7] ^	**9.2**		ug/L	1	0.22	1.0	5	EPA 8260B	04/29/10 20:00	JKG	

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Description:	5503-MW13	**Lab Sample ID:**	C002352-06	**Received:**	04/22/10 08:00
Matrix:	Ground Water	**Sampled:**	04/20/10 09:15	**Work Order:**	C002352
Project:	Lincoln County LF - App Is	**Sampled By:**	Courtney Withers		

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

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*0D29019*	*EPA 8260B*	*04/29/10 20:00*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*0D29019*	*EPA 8260B*	*04/29/10 20:00*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*69-110*	*0D29019*	*EPA 8260B*	*04/29/10 20:00*	*JKG*	

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Description: 5503-MW13 | **Lab Sample ID:** C002352-06 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:15 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	**0.263**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/03/10 10:30	VLO	
Arsenic [7440-38-2] ^	**9.25**	J	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 10:54	JDH	
Barium [7440-39-3] ^	**106**		ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 10:54	JDH	
Beryllium [7440-41-7] ^	**0.124**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 10:54	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 10:54	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 10:54	JDH	
Cobalt [7440-48-4] ^	**260**		ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 10:54	JDH	
Copper [7440-50-8] ^	**19.1**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 10:54	JDH	
Lead [7439-92-1] ^	**4.11**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:54	JDH	
Nickel [7440-02-0] ^	**25.6**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 10:54	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 10:30	VLO	
Silver [7440-22-4] ^	**6.37**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:54	JDH	
Thallium [7440-28-0] ^	**0.830**	JB	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 10:30	VLO	J-01
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 10:54	JDH	
Zinc [7440-66-6] ^	**7.71**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 10:54	JDH	

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

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Description: 5503-MW14 | **Lab Sample ID:** C002352-07 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:20 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/29/10 20:29	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/29/10 20:29	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
1,1-Dichloroethane [75-34-3] ^	**2.3**	J	ug/L	1	0.050	1.0	5	EPA 8260B	04/29/10 20:29	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/29/10 20:29	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/10 20:29	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/29/10 20:29	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/10 20:29	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/10 20:29	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/10 20:29	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/10 20:29	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/29/10 20:29	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/29/10 20:29	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/29/10 20:29	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/29/10 20:29	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/10 20:29	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/29/10 20:29	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/29/10 20:29	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/29/10 20:29	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/29/10 20:29	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/29/10 20:29	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/29/10 20:29	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/29/10 20:29	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
Tetrachloroethene [127-18-4] ^	**0.50**	J	ug/L	1	0.099	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/29/10 20:29	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/10 20:29	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 20:29	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/29/10 20:29	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/29/10 20:29	JKG	

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Description: 5503-MW14 | **Lab Sample ID:** C002352-07 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:20 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/29/10 20:29	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*0D29019*	*EPA 8260B*	*04/29/10 20:29*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*68-117*	*0D29019*	*EPA 8260B*	*04/29/10 20:29*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*85 %*	*69-110*	*0D29019*	*EPA 8260B*	*04/29/10 20:29*	*JKG*	

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Description: 5503-MW14 | **Lab Sample ID:** C002352-07 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:20 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	**2.62**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/03/10 10:34	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 10:56	JDH	
Barium [7440-39-3] ^	**21.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 10:56	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 10:56	JDH	
Cadmium [7440-43-9] ^	**0.463**	J	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 10:56	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 10:56	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 10:56	JDH	
Copper [7440-50-8] ^	**19.3**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 10:56	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:56	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 10:56	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 10:34	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:56	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 10:34	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 10:56	JDH	
Zinc [7440-66-6] ^	**26.4**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 10:56	JDH	

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

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Description: 5503-MW15 | **Lab Sample ID:** C002352-08 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:45 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/29/10 20:59	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/29/10 20:59	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/29/10 20:59	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/29/10 20:59	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/10 20:59	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/29/10 20:59	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/10 20:59	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/10 20:59	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/10 20:59	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/10 20:59	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/29/10 20:59	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/29/10 20:59	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/29/10 20:59	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/29/10 20:59	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/10 20:59	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/29/10 20:59	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/29/10 20:59	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/29/10 20:59	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/29/10 20:59	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/29/10 20:59	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/29/10 20:59	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/29/10 20:59	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/29/10 20:59	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/10 20:59	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 20:59	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/29/10 20:59	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/29/10 20:59	JKG	

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Description: 5503-MW15 | **Lab Sample ID:** C002352-08 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:45 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/29/10 20:59	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0D29019*	*EPA 8260B*	*04/29/10 20:59*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*0D29019*	*EPA 8260B*	*04/29/10 20:59*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*69-110*	*0D29019*	*EPA 8260B*	*04/29/10 20:59*	*JKG*	

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Description: 5503-MW15 | **Lab Sample ID:** C002352-08 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:45 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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	05/03/10 10:37	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 10:59	JDH	
Barium [7440-39-3] ^	**67.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 10:59	JDH	
Beryllium [7440-41-7] ^	**0.331**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 10:59	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 10:59	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 10:59	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 10:59	JDH	
Copper [7440-50-8] ^	**15.1**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 10:59	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:59	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 10:59	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 10:37	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 10:59	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 10:37	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 10:59	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 10:59	JDH	

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

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Description: 5503-MW16R
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-09
Sampled: 04/20/10 09:00
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/29/10 21:28	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/29/10 21:28	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
1,1-Dichloroethane [75-34-3] ^	**4.6**	J	ug/L	1	0.050	1.0	5	EPA 8260B	04/29/10 21:28	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/29/10 21:28	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/10 21:28	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/29/10 21:28	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**2.1**		ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/10 21:28	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/10 21:28	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/10 21:28	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/10 21:28	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/29/10 21:28	JKG	
Benzene [71-43-2] ^	**5.5**		ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/29/10 21:28	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/29/10 21:28	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/29/10 21:28	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/10 21:28	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
Chlorobenzene [108-90-7] ^	**1.4**	J	ug/L	1	0.069	1.0	3	EPA 8260B	04/29/10 21:28	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/29/10 21:28	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/29/10 21:28	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**5.4**		ug/L	1	0.075	1.0	5	EPA 8260B	04/29/10 21:28	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/29/10 21:28	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/29/10 21:28	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/29/10 21:28	JKG	
Methylene chloride [75-09-2] ^	**2.8**		ug/L	1	0.070	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/29/10 21:28	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/10 21:28	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 21:28	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/29/10 21:28	JKG	
Vinyl chloride [75-01-4] ^	**5.0**		ug/L	1	0.083	1.0	1	EPA 8260B	04/29/10 21:28	JKG	

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Description: 5503-MW16R
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-09
Sampled: 04/20/10 09:00
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	**5.8**		ug/L	1	0.22	1.0	5	EPA 8260B	04/29/10 21:28	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*0D29019*	*EPA 8260B*	*04/29/10 21:28*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*0D29019*	*EPA 8260B*	*04/29/10 21:28*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*85 %*	*69-110*	*0D29019*	*EPA 8260B*	*04/29/10 21:28*	*JKG*	

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Description: 5503-MW16R
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-09
Sampled: 04/20/10 09:00
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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	05/03/10 10:41	VLO	
Arsenic [7440-38-2] ^	**8.85**	J	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 11:01	JDH	
Barium [7440-39-3] ^	**268**		ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 11:01	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 11:01	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 11:01	JDH	
Chromium [7440-47-3] ^	**4.22**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 11:01	JDH	
Cobalt [7440-48-4] ^	**18.2**		ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 11:01	JDH	
Copper [7440-50-8] ^	**11.4**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 11:01	JDH	
Lead [7439-92-1] ^	**5.33**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:01	JDH	
Nickel [7440-02-0] ^	**8.83**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 11:01	JDH	
Selenium [7782-49-2] ^	**2.07**	J	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 10:41	VLO	
Silver [7440-22-4] ^	**8.32**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:01	JDH	
Thallium [7440-28-0] ^	**0.804**	JB	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 10:41	VLO	J-01
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 11:01	JDH	
Zinc [7440-66-6] ^	**15.1**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 11:01	JDH	

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

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Description: 5503-MW17 | **Lab Sample ID:** C002352-10 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 11:00 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/29/10 21:58	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/29/10 21:58	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/29/10 21:58	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/29/10 21:58	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/10 21:58	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/29/10 21:58	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/10 21:58	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/10 21:58	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/10 21:58	JKG	
Acetone [67-64-1] ^	**5.7**	J	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/10 21:58	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/29/10 21:58	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/29/10 21:58	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/29/10 21:58	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/29/10 21:58	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/10 21:58	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/29/10 21:58	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/29/10 21:58	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/29/10 21:58	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/29/10 21:58	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/29/10 21:58	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/29/10 21:58	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/29/10 21:58	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
Tetrachloroethene [127-18-4] ^	**0.96**	J	ug/L	1	0.099	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/29/10 21:58	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/10 21:58	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 21:58	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/29/10 21:58	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/29/10 21:58	JKG	

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Description: 5503-MW17 | **Lab Sample ID:** C002352-10 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 11:00 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/29/10 21:58	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*0D29019*	*EPA 8260B*	*04/29/10 21:58*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*89 %*	*68-117*	*0D29019*	*EPA 8260B*	*04/29/10 21:58*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*87 %*	*69-110*	*0D29019*	*EPA 8260B*	*04/29/10 21:58*	*JKG*	

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Description: 5503-MW17 | **Lab Sample ID:** C002352-10 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 11:00 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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	05/03/10 10:45	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 11:04	JDH	
Barium [7440-39-3] ^	**51.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 11:04	JDH	
Beryllium [7440-41-7] ^	**0.182**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 11:04	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 11:04	JDH	
Chromium [7440-47-3] ^	**1.27**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 11:04	JDH	
Cobalt [7440-48-4] ^	**27.6**		ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 11:04	JDH	
Copper [7440-50-8] ^	**16.1**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 11:04	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:04	JDH	
Nickel [7440-02-0] ^	**31.2**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 11:04	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 10:45	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:04	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 10:45	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 11:04	JDH	
Zinc [7440-66-6] ^	**7.98**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 11:04	JDH	

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

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Description: 5503-MW18 | **Lab Sample ID:** C002352-11 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:30 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/29/10 22:27	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/29/10 22:27	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/29/10 22:27	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/29/10 22:27	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/10 22:27	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/29/10 22:27	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/10 22:27	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/10 22:27	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/10 22:27	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/10 22:27	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/29/10 22:27	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/29/10 22:27	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/29/10 22:27	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/29/10 22:27	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/10 22:27	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/29/10 22:27	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/29/10 22:27	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/29/10 22:27	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/29/10 22:27	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/29/10 22:27	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/29/10 22:27	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/29/10 22:27	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/29/10 22:27	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/10 22:27	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 22:27	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/29/10 22:27	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/29/10 22:27	JKG	

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Description: 5503-MW18 | **Lab Sample ID:** C002352-11 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:30 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/29/10 22:27	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*0D29019*	*EPA 8260B*	*04/29/10 22:27*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*0D29019*	*EPA 8260B*	*04/29/10 22:27*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*85 %*	*69-110*	*0D29019*	*EPA 8260B*	*04/29/10 22:27*	*JKG*	

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Description: 5503-MW18 | **Lab Sample ID:** C002352-11 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:30 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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	05/03/10 10:48	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 11:06	JDH	
Barium [7440-39-3] ^	**41.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 11:06	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 11:06	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 11:06	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 11:06	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 11:06	JDH	
Copper [7440-50-8] ^	**16.0**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 11:06	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:06	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 11:06	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 10:48	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:06	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 10:48	VLO	
Vanadium [7440-62-2] ^	**1.40**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 11:06	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 11:06	JDH	

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

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Description: 5503-MW19 | **Lab Sample ID:** C002352-12 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:35 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/29/10 22:57	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/29/10 22:57	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
1,1-Dichloroethane [75-34-3] ^	**5.6**		ug/L	1	0.050	1.0	5	EPA 8260B	04/29/10 22:57	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/29/10 22:57	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/10 22:57	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/29/10 22:57	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/10 22:57	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/10 22:57	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/10 22:57	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/10 22:57	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/29/10 22:57	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/29/10 22:57	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/29/10 22:57	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/29/10 22:57	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/10 22:57	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/29/10 22:57	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/29/10 22:57	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/29/10 22:57	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.53**	J	ug/L	1	0.075	1.0	5	EPA 8260B	04/29/10 22:57	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/29/10 22:57	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/29/10 22:57	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/29/10 22:57	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
Tetrachloroethene [127-18-4] ^	**1.4**		ug/L	1	0.099	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/29/10 22:57	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/10 22:57	JKG	
Trichloroethene [79-01-6] ^	**0.76**	J	ug/L	1	0.13	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
Trichlorofluoromethane [75-69-4] ^	**0.46**	J	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 22:57	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/29/10 22:57	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/29/10 22:57	JKG	

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Description: 5503-MW19 | **Lab Sample ID:** C002352-12 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:35 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/29/10 22:57	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0D29019*	*EPA 8260B*	*04/29/10 22:57*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*0D29019*	*EPA 8260B*	*04/29/10 22:57*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*87 %*	*69-110*	*0D29019*	*EPA 8260B*	*04/29/10 22:57*	*JKG*	

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Description: 5503-MW19 | **Lab Sample ID:** C002352-12 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:35 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	**0.536**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/03/10 10:55	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 11:08	JDH	
Barium [7440-39-3] ^	**24.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 11:08	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 11:08	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 11:08	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 11:08	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 11:08	JDH	
Copper [7440-50-8] ^	**20.2**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 11:08	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:08	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 11:08	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 10:55	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:08	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 10:55	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 11:08	JDH	
Zinc [7440-66-6] ^	**30.1**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 11:08	JDH	

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

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Description: 5503-MW20 | **Lab Sample ID:** C002352-13 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:10 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/29/10 23:26	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/29/10 23:26	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
1,1-Dichloroethane [75-34-3] ^	**6.7**		ug/L	1	0.050	1.0	5	EPA 8260B	04/29/10 23:26	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/29/10 23:26	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/10 23:26	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/29/10 23:26	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/10 23:26	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/10 23:26	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/10 23:26	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/10 23:26	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/29/10 23:26	JKG	
Benzene [71-43-2] ^	**0.68**	J	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/29/10 23:26	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/29/10 23:26	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/29/10 23:26	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/10 23:26	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/29/10 23:26	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/29/10 23:26	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/29/10 23:26	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.77**	J	ug/L	1	0.075	1.0	5	EPA 8260B	04/29/10 23:26	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/29/10 23:26	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/29/10 23:26	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/29/10 23:26	JKG	
Methylene chloride [75-09-2] ^	**3.8**		ug/L	1	0.070	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
Tetrachloroethene [127-18-4] ^	**0.61**	J	ug/L	1	0.099	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/29/10 23:26	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/10 23:26	JKG	
Trichloroethene [79-01-6] ^	**0.75**	J	ug/L	1	0.13	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/29/10 23:26	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/29/10 23:26	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/29/10 23:26	JKG	

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Description: 5503-MW20
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-13
Sampled: 04/20/10 09:10
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	**0.78**	J	ug/L	1	0.22	1.0	5	EPA 8260B	04/29/10 23:26	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*0D29019*	*EPA 8260B*	*04/29/10 23:26*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*0D29019*	*EPA 8260B*	*04/29/10 23:26*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*69-110*	*0D29019*	*EPA 8260B*	*04/29/10 23:26*	*JKG*	

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Description: 5503-MW20 | **Lab Sample ID:** C002352-13 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:10 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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	05/03/10 10:59	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 11:11	JDH	
Barium [7440-39-3] ^	**59.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 11:11	JDH	
Beryllium [7440-41-7] ^	**0.151**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 11:11	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 11:11	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 11:11	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 11:11	JDH	
Copper [7440-50-8] ^	**15.3**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 11:11	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:11	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 11:11	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 10:59	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:11	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 10:59	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 11:11	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 11:11	JDH	

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

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Description: 5503-MW21 | **Lab Sample ID:** C002352-14 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:55 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 04:18	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 04:18	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 04:18	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 04:18	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 04:18	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 04:18	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 04:18	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 04:18	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 04:18	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 04:18	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 04:18	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 04:18	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 04:18	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 04:18	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 04:18	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 04:18	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 04:18	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 04:18	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 04:18	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 04:18	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 04:18	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 04:18	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 04:18	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 04:18	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 04:18	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 04:18	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 04:18	JKG	

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Description: 5503-MW21 | **Lab Sample ID:** C002352-14 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:55 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 04:18	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 04:18*	*JKG*	
Dibromofluoromethane	*40*	*1*	*50.0*	*80 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 04:18*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 04:18*	*JKG*	

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Description: 5503-MW21 | **Lab Sample ID:** C002352-14 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 09:55 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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	05/03/10 11:09	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 11:13	JDH	
Barium [7440-39-3] ^	**22.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 11:13	JDH	
Beryllium [7440-41-7] ^	**0.180**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 11:13	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 11:13	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 11:13	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 11:13	JDH	
Copper [7440-50-8] ^	**15.0**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 11:13	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:13	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 11:13	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 11:09	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:13	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 11:09	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 11:13	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 11:13	JDH	

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

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Description: 5503-MW24 | **Lab Sample ID:** C002352-15 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 10:35 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 04:47	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 04:47	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 04:47	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 04:47	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 04:47	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 04:47	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 04:47	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 04:47	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 04:47	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 04:47	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 04:47	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 04:47	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 04:47	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 04:47	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 04:47	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 04:47	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 04:47	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 04:47	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 04:47	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 04:47	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 04:47	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 04:47	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 04:47	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 04:47	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 04:47	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 04:47	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 04:47	JKG	

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Description: 5503-MW24 | **Lab Sample ID:** C002352-15 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 10:35 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 04:47	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 04:47*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 04:47*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*85 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 04:47*	*JKG*	

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Description: 5503-MW24 | **Lab Sample ID:** C002352-15 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 10:35 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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	05/03/10 11:13	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 11:22	JDH	
Barium [7440-39-3] ^	**68.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 11:22	JDH	
Beryllium [7440-41-7] ^	**0.550**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 11:22	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 11:22	JDH	
Chromium [7440-47-3] ^	**4.31**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 11:22	JDH	
Cobalt [7440-48-4] ^	**2.52**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 11:22	JDH	
Copper [7440-50-8] ^	**18.8**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 11:22	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:22	JDH	
Nickel [7440-02-0] ^	**1.95**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 11:22	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 11:13	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:22	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 11:13	VLO	
Vanadium [7440-62-2] ^	**8.33**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 11:22	JDH	
Zinc [7440-66-6] ^	**17.3**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 11:22	JDH	

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

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Description: 5503-MW25 | **Lab Sample ID:** C002352-16 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 10:15 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 05:16	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 05:16	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 05:16	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 05:16	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 05:16	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 05:16	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 05:16	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 05:16	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 05:16	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 05:16	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 05:16	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 05:16	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 05:16	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 05:16	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 05:16	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 05:16	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 05:16	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 05:16	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 05:16	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 05:16	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 05:16	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 05:16	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 05:16	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 05:16	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 05:16	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 05:16	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 05:16	JKG	

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Description: 5503-MW25 | **Lab Sample ID:** C002352-16 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 10:15 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 05:16	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 05:16*	*JKG*	
Dibromofluoromethane	*41*	*1*	*50.0*	*83 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 05:16*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 05:16*	*JKG*	

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Description: 5503-MW25 | **Lab Sample ID:** C002352-16 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 10:15 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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	05/03/10 11:17	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 11:25	JDH	
Barium [7440-39-3] ^	**176**		ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 11:25	JDH	
Beryllium [7440-41-7] ^	**0.154**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 11:25	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 11:25	JDH	
Chromium [7440-47-3] ^	**3.74**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 11:25	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 11:25	JDH	
Copper [7440-50-8] ^	**17.6**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 11:25	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:25	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 11:25	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 11:17	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:25	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 11:17	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 11:25	JDH	
Zinc [7440-66-6] ^	**15.2**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 11:25	JDH	

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

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Description: 5503-MW25A
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-17
Sampled: 04/21/10 10:20
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 05:45	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 05:45	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 05:45	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 05:45	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 05:45	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 05:45	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 05:45	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 05:45	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 05:45	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 05:45	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 05:45	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 05:45	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 05:45	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 05:45	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 05:45	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 05:45	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 05:45	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 05:45	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 05:45	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 05:45	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 05:45	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 05:45	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 05:45	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 05:45	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 05:45	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 05:45	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 05:45	JKG	

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Description: 5503-MW25A
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-17
Sampled: 04/21/10 10:20
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 05:45	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 05:45*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*83 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 05:45*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*85 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 05:45*	*JKG*	

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Description: 5503-MW25A
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-17
Sampled: 04/21/10 10:20
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	**1.08**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/03/10 11:20	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 11:27	JDH	
Barium [7440-39-3] ^	**35.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 11:27	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 11:27	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 11:27	JDH	
Chromium [7440-47-3] ^	**5.81**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 11:27	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 11:27	JDH	
Copper [7440-50-8] ^	**18.1**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 11:27	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:27	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 11:27	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 11:20	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:27	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 11:20	VLO	
Vanadium [7440-62-2] ^	**3.16**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 11:27	JDH	
Zinc [7440-66-6] ^	**5.93**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 11:27	JDH	

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

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Description: 5503-MW32R
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-18
Sampled: 04/20/10 10:05
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 06:15	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 06:15	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 06:15	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 06:15	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 06:15	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 06:15	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 06:15	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 06:15	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 06:15	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 06:15	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 06:15	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 06:15	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 06:15	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 06:15	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 06:15	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 06:15	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 06:15	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 06:15	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 06:15	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 06:15	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 06:15	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 06:15	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 06:15	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 06:15	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 06:15	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 06:15	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 06:15	JKG	

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Description: 5503-MW32R
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-18
Sampled: 04/20/10 10:05
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 06:15	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*87 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 06:15*	*JKG*	
Dibromofluoromethane	*40*	*1*	*50.0*	*81 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 06:15*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 06:15*	*JKG*	

www.encolabs.com

Description: 5503-MW32R
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-18
Sampled: 04/20/10 10:05
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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	05/03/10 11:24	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 11:29	JDH	
Barium [7440-39-3] ^	**28.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 11:29	JDH	
Beryllium [7440-41-7] ^	**0.314**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 11:29	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 11:29	JDH	
Chromium [7440-47-3] ^	**1.72**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 11:29	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 11:29	JDH	
Copper [7440-50-8] ^	**17.4**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 11:29	JDH	
Lead [7439-92-1] ^	**2.34**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:29	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 11:29	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 11:24	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:29	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 11:24	VLO	
Vanadium [7440-62-2] ^	**3.79**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 11:29	JDH	
Zinc [7440-66-6] ^	**13.4**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 11:29	JDH	

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

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Description: 5503-MW33 | **Lab Sample ID:** C002352-19 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 10:20 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 06:44	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 06:44	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 06:44	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 06:44	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 06:44	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 06:44	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 06:44	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 06:44	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 06:44	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 06:44	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 06:44	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 06:44	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 06:44	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 06:44	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 06:44	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 06:44	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 06:44	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 06:44	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 06:44	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 06:44	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 06:44	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 06:44	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 06:44	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 06:44	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 06:44	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 06:44	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 06:44	JKG	

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Description: 5503-MW33 | **Lab Sample ID:** C002352-19 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 10:20 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 06:44	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 06:44*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*83 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 06:44*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*87 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 06:44*	*JKG*	

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Description: 5503-MW33 | **Lab Sample ID:** C002352-19 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 10:20 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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	05/03/10 11:27	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 11:32	JDH	
Barium [7440-39-3] ^	**52.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 11:32	JDH	
Beryllium [7440-41-7] ^	**0.277**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 11:32	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 11:32	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 11:32	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 11:32	JDH	
Copper [7440-50-8] ^	**18.0**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 11:32	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:32	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 11:32	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 11:27	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:32	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 11:27	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 11:32	JDH	
Zinc [7440-66-6] ^	**6.28**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 11:32	JDH	

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

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Description: 5503-MW33A
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-20
Sampled: 04/20/10 10:15
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 07:13	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 07:13	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 07:13	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 07:13	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 07:13	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 07:13	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 07:13	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 07:13	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 07:13	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 07:13	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 07:13	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 07:13	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 07:13	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 07:13	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 07:13	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 07:13	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 07:13	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 07:13	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 07:13	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 07:13	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 07:13	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 07:13	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 07:13	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 07:13	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 07:13	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 07:13	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 07:13	JKG	

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Description: 5503-MW33A
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-20
Sampled: 04/20/10 10:15
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 07:13	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 07:13*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 07:13*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*87 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 07:13*	*JKG*	

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Description: 5503-MW33A
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-20
Sampled: 04/20/10 10:15
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	**0.936**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/03/10 11:31	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/10 11:34	JDH	
Barium [7440-39-3] ^	**7.44**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/10 11:34	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/10 11:34	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/10 11:34	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/10 11:34	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/10 11:34	JDH	
Copper [7440-50-8] ^	**18.2**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/10 11:34	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:34	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/10 11:34	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 11:31	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/10 11:34	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 11:31	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/10 11:34	JDH	
Zinc [7440-66-6] ^	**20.6**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/10 11:34	JDH	

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

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Description: 5503-MW34 | **Lab Sample ID:** C002352-21 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 10:30 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 07:42	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 07:42	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 07:42	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 07:42	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 07:42	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 07:42	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 07:42	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 07:42	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 07:42	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 07:42	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 07:42	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 07:42	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 07:42	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 07:42	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 07:42	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 07:42	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 07:42	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 07:42	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 07:42	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 07:42	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 07:42	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 07:42	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 07:42	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 07:42	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 07:42	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 07:42	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 07:42	JKG	

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Description: 5503-MW34 | **Lab Sample ID:** C002352-21 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 10:30 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 07:42	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 07:42*	*JKG*	
Dibromofluoromethane	*41*	*1*	*50.0*	*82 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 07:42*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*87 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 07:42*	*JKG*	

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Description: 5503-MW34 | **Lab Sample ID:** C002352-21 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 10:30 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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	04/30/10 10:04	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 11:50	JDH	
Barium [7440-39-3] ^	**230**		ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 11:50	JDH	
Beryllium [7440-41-7] ^	**1.28**		ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 11:50	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 11:50	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 11:50	JDH	
Cobalt [7440-48-4] ^	**4.23**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 11:50	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 11:50	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 11:50	JDH	
Nickel [7440-02-0] ^	**2.34**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 11:50	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/10 10:04	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 11:50	JDH	
Thallium [7440-28-0] ^	**0.156**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/10 10:04	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 11:50	JDH	
Zinc [7440-66-6] ^	**16.2**		ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 11:50	JDH	

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

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Description: 5503-MW35 | **Lab Sample ID:** C002352-22 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 10:45 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 08:11	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 08:11	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 08:11	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 08:11	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 08:11	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 08:11	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 08:11	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 08:11	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 08:11	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 08:11	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 08:11	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 08:11	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 08:11	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 08:11	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 08:11	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 08:11	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 08:11	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 08:11	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 08:11	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 08:11	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 08:11	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 08:11	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 08:11	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 08:11	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 08:11	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 08:11	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 08:11	JKG	

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Description: 5503-MW35
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-22
Sampled: 04/20/10 10:45
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 08:11	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 08:11*	*JKG*	
Dibromofluoromethane	*41*	*1*	*50.0*	*82 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 08:11*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*91 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 08:11*	*JKG*	

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Description: 5503-MW35 | **Lab Sample ID:** C002352-22 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/20/10 10:45 | **Work Order:** C002352

Project: Lincoln County LF - App Is | **Sampled By:** Courtney Withers

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	04/30/10 10:07	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 11:52	JDH	
Barium [7440-39-3] ^	**50.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 11:52	JDH	
Beryllium [7440-41-7] ^	**0.203**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 11:52	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 11:52	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 11:52	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 11:52	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 11:52	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 11:52	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 11:52	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/10 10:07	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 11:52	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/10 10:07	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 11:52	JDH	
Zinc [7440-66-6] ^	**7.29**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 11:52	JDH	

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

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Description: 5503-MW35A
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-23
Sampled: 04/20/10 10:50
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 08:41	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 08:41	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 08:41	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 08:41	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 08:41	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 08:41	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 08:41	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 08:41	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 08:41	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 08:41	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 08:41	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 08:41	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 08:41	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 08:41	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 08:41	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 08:41	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 08:41	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 08:41	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 08:41	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 08:41	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 08:41	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 08:41	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 08:41	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 08:41	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 08:41	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 08:41	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 08:41	JKG	

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Description: 5503-MW35A
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-23
Sampled: 04/20/10 10:50
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 08:41	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 08:41*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 08:41*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 08:41*	*JKG*	

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Description: 5503-MW35A
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-23
Sampled: 04/20/10 10:50
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002352

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	04/30/10 10:11	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 11:54	JDH	
Barium [7440-39-3] ^	**33.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 11:54	JDH	
Beryllium [7440-41-7] ^	**0.103**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 11:54	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 11:54	JDH	
Chromium [7440-47-3] ^	**2.46**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 11:54	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 11:54	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 11:54	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 11:54	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 11:54	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/10 10:11	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 11:54	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/10 10:11	VLO	
Vanadium [7440-62-2] ^	**2.32**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 11:54	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 11:54	JDH	

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

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Description: 5503-TripBlank | **Lab Sample ID:** C002352-24 | **Received:** 04/22/10 08:00
Matrix: Water | **Sampled:** 04/20/10 08:50 | **Work Order:** C002352
Project: Lincoln County LF - App Is | **Sampled By:** ENCO

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 09:10	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 09:10	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 09:10	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 09:10	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 09:10	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 09:10	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 09:10	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 09:10	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 09:10	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 09:10	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 09:10	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 09:10	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 09:10	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 09:10	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 09:10	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 09:10	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 09:10	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 09:10	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 09:10	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 09:10	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 09:10	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 09:10	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 09:10	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 09:10	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 09:10	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 09:10	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 09:10	JKG	

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Description: 5503-TripBlank
Matrix: Water
Project: Lincoln County LF - App Is

Lab Sample ID: C002352-24
Sampled: 04/20/10 08:50
Sampled By: ENCO

Received: 04/22/10 08:00
Work Order: C002352

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 09:10	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 09:10*	*JKG*	
Dibromofluoromethane	*41*	*1*	*50.0*	*83 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 09:10*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 09:10*	*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 0D28024 - EPA 5030B_MS

Blank (0D28024-BLK1) Prepared: 04/28/2010 13:22 Analyzed: 04/29/2010 00:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*87*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0D28024 - EPA 5030B_MS

Blank (0D28024-BLK1) Continued Prepared: 04/28/2010 13:22 Analyzed: 04/29/2010 00:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*83*	*69-110*			

LCS (0D28024-BS1) Prepared: 04/28/2010 13:22 Analyzed: 04/29/2010 00:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		102	75-133			
Benzene	19		1.0	ug/L	20.0		95	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		101	83-117			
Toluene	21		1.0	ug/L	20.0		105	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	75-115			

Matrix Spike (0D28024-MS1) Prepared: 04/28/2010 13:22 Analyzed: 04/29/2010 01:06

Source: C004891-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	101	75-133			
Benzene	19		1.0	ug/L	20.0	0.050 U	96	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	99	83-117			
Toluene	21		1.0	ug/L	20.0	0.053 U	104	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	101	75-115			

Matrix Spike Dup (0D28024-MSD1) Prepared: 04/28/2010 13:22 Analyzed: 04/29/2010 01:35

Source: C004891-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.15 U	97	75-133	3	20	
Benzene	19		1.0	ug/L	20.0	0.050 U	94	81-134	2	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	98	83-117	1	16	
Toluene	20		1.0	ug/L	20.0	0.053 U	100	71-118	4	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	98	75-115	3	18	

Batch 0D29019 - EPA 5030B_MS

Blank (0D29019-BLK1) Prepared: 04/29/2010 11:01 Analyzed: 04/29/2010 13:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0D29019 - EPA 5030B_MS

Blank (0D29019-BLK1) Continued Prepared: 04/29/2010 11:01 Analyzed: 04/29/2010 13:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*85*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*69-110*			

LCS (0D29019-BS1) Prepared: 04/29/2010 11:01 Analyzed: 04/29/2010 14:05

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		104	75-133			
Benzene	19		1.0	ug/L	20.0		94	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	21		1.0	ug/L	20.0		103	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0D29019 - EPA 5030B_MS

LCS (0D29019-BS1) Continued Prepared: 04/29/2010 11:01 Analyzed: 04/29/2010 14:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	20		1.0	ug/L	20.0		100	75-115			

Matrix Spike (0D29019-MS1) Prepared: 04/29/2010 11:01 Analyzed: 04/29/2010 14:35

Source: C004891-07

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	0.15 U	107	75-133			
Benzene	20		1.0	ug/L	20.0	0.050 U	98	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.069 U	103	83-117			
Toluene	21		1.0	ug/L	20.0	0.053 U	106	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.13 U	103	75-115			

Matrix Spike Dup (0D29019-MSD1) Prepared: 04/29/2010 11:01 Analyzed: 04/29/2010 15:04

Source: C004891-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	100	75-133	7	20	
Benzene	19		1.0	ug/L	20.0	0.050 U	95	81-134	3	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	100	83-117	4	16	
Toluene	21		1.0	ug/L	20.0	0.053 U	104	71-118	2	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	102	75-115	1	18	

Batch 0D29033 - EPA 5030B_MS

Blank (0D29033-BLK1) Prepared: 04/29/2010 14:55 Analyzed: 04/30/2010 01:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0D29033 - EPA 5030B_MS

Blank (0D29033-BLK1) Continued Prepared: 04/29/2010 14:55 Analyzed: 04/30/2010 01:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*88*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*69-110*			

LCS (0D29033-BS1) Prepared: 04/29/2010 14:55 Analyzed: 04/30/2010 02:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		102	75-133			
Benzene	19		1.0	ug/L	20.0		94	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	75-115			

Matrix Spike (0D29033-MS1) Prepared: 04/29/2010 14:55 Analyzed: 04/30/2010 02:50

Source: C004891-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	98	75-133			
Benzene	19		1.0	ug/L	20.0	0.050 U	96	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.069 U	96	83-117			
Toluene	20		1.0	ug/L	20.0	0.053 U	100	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	100	75-115			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0D29033 - EPA 5030B_MS

Matrix Spike Dup (0D29033-MSD1) Prepared: 04/29/2010 14:55 Analyzed: 04/30/2010 03:19

Source: C004891-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	98	75-133	0.2	20	
Benzene	19		1.0	ug/L	20.0	0.050 U	96	81-134	0.05	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	100	83-117	4	16	
Toluene	21		1.0	ug/L	20.0	0.053 U	105	71-118	4	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	99	75-115	0.7	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0D22017 - EPA 245.1

Blank (0D22017-BLK1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0540	U	0.200	ug/L							

LCS (0D22017-BS1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.29		0.200	ug/L	5.00		106	85-115			

Matrix Spike (0D22017-MS1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:54

Source: C002355-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.76		0.200	ug/L	5.00	0.0540 U	95	85-115			

Matrix Spike Dup (0D22017-MSD1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:57

Source: C002355-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.01		0.200	ug/L	5.00	0.0540 U	100	85-115	5	15	

Post Spike (0D22017-PS1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:59

Source: C002355-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.12		0.200	ug/L	5.00	-0.0594	84	75-125			

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

Batch 0D22016 - EPA 3005A

Blank (0D22016-BLK1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:39

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

QUALITY CONTROL

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

Batch 0D22016 - EPA 3005A

Blank (0D22016-BLK1) Continued Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:39

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

LCS (0D22016-BS1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.5		2.00	ug/L	25.0		106	80-120			
Selenium	25.5		1.00	ug/L	25.0		102	80-120			
Thallium	25.7		1.00	ug/L	25.0		103	80-120			

Matrix Spike (0D22016-MS1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:49

Source: C004685-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.3		2.00	ug/L	25.0	0.220 U	97	75-125			
Selenium	24.2		1.00	ug/L	25.0	0.830 U	97	75-125			
Thallium	24.7		1.00	ug/L	25.0	0.110 U	99	75-125			

Matrix Spike Dup (0D22016-MSD1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:53

Source: C004685-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.2		2.00	ug/L	25.0	0.220 U	97	75-125	0.3	20	
Selenium	24.9		1.00	ug/L	25.0	0.830 U	100	75-125	3	20	
Thallium	25.2		1.00	ug/L	25.0	0.110 U	101	75-125	2	20	

Post Spike (0D22016-PS1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:57

Source: C004685-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.1		2.00	ug/L	25.0	0.0640	96	80-120			
Selenium	25.3		1.00	ug/L	25.0	-0.253	102	80-120			
Thallium	25.0		1.00	ug/L	25.0	-0.00400	100	80-120			

Batch 0D22018 - EPA 3005A

Blank (0D22018-BLK1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:24

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							

QUALITY CONTROL

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

Batch 0D22018 - EPA 3005A

Blank (0D22018-BLK1) Continued Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:24

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							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0D22018-BS1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	975		10.0	ug/L	1000		98	80-120			
Barium	970		10.0	ug/L	1000		97	80-120			
Beryllium	501		1.00	ug/L	500		100	80-120			
Cadmium	480		1.00	ug/L	500		96	80-120			
Chromium	982		10.0	ug/L	1000		98	80-120			
Cobalt	943		10.0	ug/L	1000		94	80-120			
Copper	493		10.0	ug/L	500		99	80-120			
Lead	978		10.0	ug/L	1000		98	80-120			
Nickel	968		10.0	ug/L	1000		97	80-120			
Silver	96.1		10.0	ug/L	100		96	80-120			
Vanadium	483		10.0	ug/L	500		97	80-120			
Zinc	984		10.0	ug/L	1000		98	80-120			

Matrix Spike (0D22018-MS1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:31

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	953		10.0	ug/L	1000	32.7	92	75-125			
Barium	1420		10.0	ug/L	1000	438	98	75-125			
Beryllium	491		1.00	ug/L	500	0.100 U	98	75-125			
Cadmium	453		1.00	ug/L	500	0.360 U	91	75-125			
Chromium	1000		10.0	ug/L	1000	51.1	95	75-125			
Cobalt	945		10.0	ug/L	1000	35.7	91	75-125			
Copper	525		10.0	ug/L	500	10.1	103	75-125			
Lead	897		10.0	ug/L	1000	12.0	89	75-125			
Nickel	965		10.0	ug/L	1000	47.5	92	75-125			
Silver	101		10.0	ug/L	100	6.14	95	75-125			
Vanadium	516		10.0	ug/L	500	40.0	95	75-125			
Zinc	1190		10.0	ug/L	1000	234	95	75-125			

Matrix Spike Dup (0D22018-MSD1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:34

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	925		10.0	ug/L	1000	32.7	89	75-125	3	20	
Barium	1360		10.0	ug/L	1000	438	93	75-125	4	20	
Beryllium	474		1.00	ug/L	500	0.100 U	95	75-125	3	20	
Cadmium	438		1.00	ug/L	500	0.360 U	88	75-125	3	20	
Chromium	968		10.0	ug/L	1000	51.1	92	75-125	3	20	

QUALITY CONTROL

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

Batch 0D22018 - EPA 3005A

Matrix Spike Dup (0D22018-MSD1) Continued Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:34

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cobalt	913		10.0	ug/L	1000	35.7	88	75-125	3	20	
Copper	506		10.0	ug/L	500	10.1	99	75-125	4	20	
Lead	872		10.0	ug/L	1000	12.0	86	75-125	3	20	
Nickel	932		10.0	ug/L	1000	47.5	88	75-125	3	20	
Silver	97.3		10.0	ug/L	100	6.14	91	75-125	4	20	
Vanadium	499		10.0	ug/L	500	40.0	92	75-125	3	20	
Zinc	1150		10.0	ug/L	1000	234	91	75-125	3	20	

Post Spike (0D22018-PS1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:44

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.959		0.0100	mg/L	1.00	0.0327	93	80-120			
Barium	1.41		0.0100	mg/L	1.00	0.438	97	80-120			
Beryllium	0.491		0.00100	mg/L	0.500	-0.000549	98	80-120			
Cadmium	0.457		0.00100	mg/L	0.500	-0.000247	91	80-120			
Chromium	1.01		0.0100	mg/L	1.00	0.0511	95	80-120			
Cobalt	0.955		0.0100	mg/L	1.00	0.0357	92	80-120			
Copper	0.525		0.0100	mg/L	0.500	0.0101	103	80-120			
Lead	0.898		0.0100	mg/L	1.00	0.0120	89	80-120			
Nickel	0.965		0.0100	mg/L	1.00	0.0475	92	80-120			
Silver	0.104		0.0100	mg/L	0.100	0.00614	98	80-120			
Vanadium	0.518		0.0100	mg/L	0.500	0.0400	96	80-120			
Zinc	1.19		0.0100	mg/L	1.00	0.234	95	80-120			

Batch 0D22029 - EPA 3005A

Blank (0D22029-BLK1) Prepared: 04/22/2010 13:08 Analyzed: 04/27/2010 10:20

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							
Iron	22.0	U	50.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Manganese	1.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0D22029-BS1) Prepared: 04/22/2010 13:08 Analyzed: 04/27/2010 10:22

QUALITY CONTROL

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

Batch 0D22029 - EPA 3005A

LCS (0D22029-BS1) Continued Prepared: 04/22/2010 13:08 Analyzed: 04/27/2010 10:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	990		10.0	ug/L	1000		99	80-120			
Barium	974		10.0	ug/L	1000		97	80-120			
Beryllium	503		1.00	ug/L	500		101	80-120			
Cadmium	485		1.00	ug/L	500		97	80-120			
Chromium	987		10.0	ug/L	1000		99	80-120			
Cobalt	949		10.0	ug/L	1000		95	80-120			
Copper	522		10.0	ug/L	500		104	80-120			
Iron	9680		50.0	ug/L	10000		97	80-120			
Lead	990		10.0	ug/L	1000		99	80-120			
Manganese	487		10.0	ug/L	500		97	80-120			
Nickel	974		10.0	ug/L	1000		97	80-120			
Silver	97.1		10.0	ug/L	100		97	80-120			
Vanadium	487		10.0	ug/L	500		97	80-120			
Zinc	995		10.0	ug/L	1000		99	80-120			

Matrix Spike (0D22029-MS1) Prepared: 04/22/2010 13:08 Analyzed: 04/27/2010 10:27

Source: C002352-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	977		10.0	ug/L	1000	2.80 U	98	75-125			
Barium	984		10.0	ug/L	1000	20.5	96	75-125			
Beryllium	494		1.00	ug/L	500	0.178	99	75-125			
Cadmium	483		1.00	ug/L	500	0.360 U	97	75-125			
Chromium	975		10.0	ug/L	1000	2.06	97	75-125			
Cobalt	936		10.0	ug/L	1000	1.10 U	94	75-125			
Copper	520		10.0	ug/L	500	16.8	101	75-125			
Iron	9690		50.0	ug/L	10000	123	96	75-125			
Lead	980		10.0	ug/L	1000	1.90 U	98	75-125			
Manganese	490		10.0	ug/L	500	7.65	96	75-125			
Nickel	962		10.0	ug/L	1000	1.80 U	96	75-125			
Silver	99.8		10.0	ug/L	100	1.90 U	100	75-125			
Vanadium	483		10.0	ug/L	500	1.40 U	97	75-125			
Zinc	983		10.0	ug/L	1000	7.61	98	75-125			

Matrix Spike Dup (0D22029-MSD1) Prepared: 04/22/2010 13:08 Analyzed: 04/27/2010 10:30

Source: C002352-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1010		10.0	ug/L	1000	2.80 U	101	75-125	3	20	
Barium	1020		10.0	ug/L	1000	20.5	100	75-125	3	20	
Beryllium	515		1.00	ug/L	500	0.178	103	75-125	4	20	
Cadmium	494		1.00	ug/L	500	0.360 U	99	75-125	2	20	
Chromium	1010		10.0	ug/L	1000	2.06	101	75-125	3	20	
Cobalt	967		10.0	ug/L	1000	1.10 U	97	75-125	3	20	
Copper	537		10.0	ug/L	500	16.8	104	75-125	3	20	
Iron	10000		50.0	ug/L	10000	123	99	75-125	3	20	
Lead	1010		10.0	ug/L	1000	1.90 U	101	75-125	3	20	
Manganese	505		10.0	ug/L	500	7.65	99	75-125	3	20	

QUALITY CONTROL

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

Batch 0D22029 - EPA 3005A

Matrix Spike Dup (0D22029-MSD1) Continued Prepared: 04/22/2010 13:08 Analyzed: 04/27/2010 10:30

Source: C002352-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nickel	991		10.0	ug/L	1000	1.80 U	99	75-125	3	20	
Silver	100		10.0	ug/L	100	1.90 U	100	75-125	0.7	20	
Vanadium	499		10.0	ug/L	500	1.40 U	100	75-125	3	20	
Zinc	1010		10.0	ug/L	1000	7.61	100	75-125	3	20	

Post Spike (0D22029-PS1) Prepared: 04/22/2010 13:08 Analyzed: 04/27/2010 10:33

Source: C002352-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.18		0.0100	mg/L	1.00	0.00125	118	80-120			
Barium	1.18		0.0100	mg/L	1.00	0.0205	116	80-120			
Beryllium	0.609		0.00100	mg/L	0.500	0.000178	122	80-120			QM-08
Cadmium	0.571		0.00100	mg/L	0.500	0.000159	114	80-120			
Chromium	1.18		0.0100	mg/L	1.00	0.00206	118	80-120			
Cobalt	1.13		0.0100	mg/L	1.00	0.000164	113	80-120			
Copper	0.627		0.0100	mg/L	0.500	0.0168	122	80-120			QM-08
Iron	11.7		0.0500	mg/L	10.0	0.123	116	80-120			
Lead	1.17		0.0100	mg/L	1.00	0.000699	117	80-120			
Manganese	0.589		0.0100	mg/L	0.500	0.00765	116	80-120			
Nickel	1.16		0.0100	mg/L	1.00	0.000895	116	80-120			
Silver	0.112		0.0100	mg/L	0.100	0.000832	111	80-120			
Vanadium	0.583		0.0100	mg/L	0.500	0.000477	117	80-120			
Zinc	1.17		0.0100	mg/L	1.00	0.00761	117	80-120			

Batch 0D22030 - EPA 3005A

Blank (0D22030-BLK1) Prepared: 04/22/2010 13:10 Analyzed: 05/03/2010 09:40

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	**0.357**	**J**	1.00	ug/L							

LCS (0D22030-BS1) Prepared: 04/22/2010 13:10 Analyzed: 05/03/2010 09:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.7		2.00	ug/L	25.0		107	80-120			
Selenium	25.4		1.00	ug/L	25.0		102	80-120			
Thallium	27.5	B	1.00	ug/L	25.0		110	80-120			

Matrix Spike (0D22030-MS1) Prepared: 04/22/2010 13:10 Analyzed: 05/03/2010 09:54

Source: C002352-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.3		2.00	ug/L	25.0	0.426	103	75-125			
Selenium	25.9		1.00	ug/L	25.0	0.830 U	104	75-125			

QUALITY CONTROL

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

Batch 0D22030 - EPA 3005A

Matrix Spike (0D22030-MS1) Continued Prepared: 04/22/2010 13:10 Analyzed: 05/03/2010 09:54

Source: C002352-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thallium	26.8	B	1.00	ug/L	25.0	0.110 U	107	75-125			

Matrix Spike Dup (0D22030-MSD1) Prepared: 04/22/2010 13:10 Analyzed: 05/03/2010 09:57

Source: C002352-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.1		2.00	ug/L	25.0	0.426	103	75-125	0.9	20	
Selenium	26.6		1.00	ug/L	25.0	0.830 U	107	75-125	3	20	
Thallium	26.7	B	1.00	ug/L	25.0	0.110 U	107	75-125	0.3	20	

Post Spike (0D22030-PS1) Prepared: 04/22/2010 13:10 Analyzed: 05/03/2010 10:01

Source: C002352-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.0		2.00	ug/L	25.0	0.426	106	80-120			
Selenium	27.1		1.00	ug/L	25.0	-0.490	110	80-120			
Thallium	27.3	B	1.00	ug/L	25.0	0.0180	109	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.
J-01	Result is estimated due to positive results in the associated method blank.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Page 1 of 2

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-07-004
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Lincoln County LF - App Is
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: ~~50341~~ 51689
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Courtney Withers	Billing Contact: Barbara Ellington
Sampler(s) Signature: Courtney Withers	Facility # (if required): 55-03

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C002352

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,Fe,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Hg							Sample Comments
	5503-MW1A	4/20/10	0850	GRAB	GW	4	X	X		X							
	5503-MW8	4/21/10	0950		GW	4	X		X								
	5503-MW9	4/21/10	0855		GW	4	X		X								
	5503-MW10R	4/21/10	1025		GW	4	X		X								
	5503-MW12	4/21/10	1045		GW	4	X		X								
	5503-MW13	4/20/10	0915		GW	4	X		X								
	5503-MW14	4/20/10	0920		GW	4	X		X								
	5503-MW15	4/20/10	0945		GW	4	X		X								
	5503-MW16R	4/20/10	0900		GW	4	X		X								
	5503-MW17	4/20/10	1100		GW	4	X		X								
	5503-MW18	4/20/10	0930		GW	4	X		X								
	5503-MW19	4/20/10	0935		GW	4	X		X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
BJG	3/9/10	Courtney Withers	4/21/10 1700	Briana Gregory	4/22/10 08:00
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-430 2.1°C Blue 1.1°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil 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

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

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-07-004
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Lincoln County LF - App Is
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: ~~50341~~ 51689
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Courtney Withers	Billing Contact: Barbara Ellington
Sampler(s) Signature: Courtney Withers	Facility # (if required): 55-03

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C002352

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,Fe,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Hg							Sample Comments
	5503-MW20	4/20/10	0910	Grab	GW	4	X		X								
	5503-MW21	4/20/10 ~~0955~~	0955		GW	4	X		X								
	5503-MW24	4/21/10	1035		GW	4	X		X								
	5503-MW25	4/21/10	1015		GW	4	X		X								
	5503-MW25A	4/21/10	1020		GW	4	X		X								
	5503-MW32R	4/20/10	1005		GW	4	X		X								
	5503-MW33	4/20/10	~~1035~~ 1030		GW	4	X		X								
	5503-MW33A	4/20/10	~~1015~~ 1015		GW	4	X		X								
	5503-MW34	4/20/10	1030		GW	4	X		X								
	5503-MW35	4/20/10	1045		GW	4	X		X								
	5503-MW35A	4/20/10	1050		GW	4	X		X								
	5503-Trip Blank				WA	2	X										

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
BJG	3/9/10	Courtney R. Withers	4/21/10 1700	Briana Gregory	4/22/10 08:00
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-430 2.1°C Blue 1.1°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil 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

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

Thursday, May 6, 2010

S&ME, Inc. (SM002)

Attn: Courtney Withers

9751 Southern Pine Blvd.

Charlotte, NC 28273

RE: Laboratory Results for
Project Number: 1356-07-004, Project Name/Desc: Lincoln County LF - C&D
ENCO Workorder: C002353

Dear Courtney Withers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, April 22, 2010.

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 46.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 5503-MW26 **Lab ID: C002353-01** **Sampled: 04/21/10 11:45** **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/19/10	04/26/10	07:39	4/26/2010 20:38
EPA 310.2	05/05/10	04/23/10	07:15	4/23/2010 08:06
EPA 6010C	10/18/10	04/22/10	10:06	4/23/2010 11:57
EPA 6020A	10/18/10	04/23/10	08:56	5/3/2010 11:42
EPA 7470A	05/19/10	04/22/10	10:02	4/22/2010 15:10
EPA 8260B	05/05/10	04/29/10	14:55	4/30/2010 09:40
SM 2540C	04/28/10	04/23/10	14:00	4/23/2010 14:00

Client ID: 5503-MW27 **Lab ID: C002353-02** **Sampled: 04/21/10 11:55** **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/19/10	04/26/10	07:39	4/26/2010 21:40
EPA 310.2	05/05/10	04/23/10	07:15	4/23/2010 08:09
EPA 6010C	10/18/10	04/22/10	10:06	4/23/2010 11:59
EPA 6020A	10/18/10	04/23/10	08:56	5/3/2010 12:07
EPA 7470A	05/19/10	04/22/10	10:02	4/22/2010 15:13
EPA 8260B	05/05/10	04/29/10	14:55	4/30/2010 10:10
SM 2540C	04/28/10	04/23/10	14:00	4/23/2010 14:00

Client ID: 5503-MW28 **Lab ID: C002353-03** **Sampled: 04/21/10 12:10** **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/19/10	04/26/10	07:39	4/26/2010 22:01
EPA 310.2	05/05/10	04/23/10	07:15	4/23/2010 08:10
EPA 6010C	10/18/10	04/22/10	10:06	4/23/2010 12:01
EPA 6020A	10/18/10	04/23/10	08:56	5/3/2010 12:11
EPA 7470A	05/19/10	04/22/10	10:02	4/22/2010 15:21
EPA 8260B	05/05/10	04/29/10	14:55	4/30/2010 10:40
SM 2540C	04/28/10	04/23/10	14:00	4/23/2010 14:00

Client ID: 5503-MW29 **Lab ID: C002353-04** **Sampled: 04/21/10 10:55** **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/19/10	04/26/10	07:39	4/26/2010 22:22
EPA 310.2	05/05/10	04/23/10	07:15	4/23/2010 08:10
EPA 6010C	10/18/10	04/22/10	10:06	4/23/2010 12:04
EPA 6020A	10/18/10	04/23/10	08:56	5/3/2010 12:15
EPA 7470A	05/19/10	04/22/10	10:02	4/22/2010 15:24
EPA 8260B	05/05/10	04/29/10	14:55	4/30/2010 11:09
SM 2540C	04/28/10	04/23/10	14:00	4/23/2010 14:00

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Client ID: 5503-MW30	Lab ID: C002353-05	Sampled: 04/21/10 11:10	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/19/10	04/26/10 07:39	4/26/2010 22:42
EPA 310.2	05/05/10	04/23/10 07:15	4/23/2010 08:11
EPA 6010C	10/18/10	04/22/10 10:06	4/23/2010 12:06
EPA 6020A	10/18/10	04/23/10 08:56	5/3/2010 12:18
EPA 7470A	05/19/10	04/22/10 10:02	4/22/2010 15:26
EPA 8260B	05/05/10	04/29/10 14:55	4/30/2010 11:39
SM 2540C	04/28/10	04/23/10 14:00	4/23/2010 14:00

Client ID: 5503-MW31	Lab ID: C002353-06	Sampled: 04/21/10 11:20	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/19/10	04/26/10 07:39	4/26/2010 23:03
EPA 310.2	05/05/10	04/23/10 07:15	4/23/2010 08:12
EPA 6010C	10/18/10	04/22/10 10:06	4/23/2010 12:15
EPA 6020A	10/18/10	04/23/10 08:56	5/3/2010 12:22
EPA 7470A	05/19/10	04/22/10 10:02	4/22/2010 15:29
EPA 8260B	05/05/10	04/30/10 10:38	5/1/2010 00:08
SM 2540C	04/28/10	04/23/10 14:00	4/23/2010 14:00

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 5503-MW26 **Lab ID: C002353-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	4.16	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	45.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloride	3.6	J	1	0.018	5.0	NE	mg/L	EPA 300.0	
Chromium - Total	3.20	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Iron - Total	631		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	29.2	J	1	1.10	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	3.2	J	1	0.12	5.0	250000	mg/L	EPA 300.0	
Total Alkalinity	20		1	8.0	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	52		1	10	10	NE	mg/L	SM 2540C	
Vanadium - Total	1.52	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	4.38	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW27 **Lab ID: C002353-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	217		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.45	J	1	0.050	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.630	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	8.9		1	0.018	5.0	NE	mg/L	EPA 300.0	
cis-1,2-Dichloroethene	0.43	J	1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	6.24	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Iron - Total	175	J	1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	283		1	1.10	10.0	50	ug/L	EPA 6010C	
Nickel - Total	7.82	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	2.7	J	1	0.12	5.0	250000	mg/L	EPA 300.0	
Total Alkalinity	32		1	8.0	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	82		1	10	10	NE	mg/L	SM 2540C	
Vanadium - Total	5.26	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Xylenes (Total)	0.40	J	1	0.22	1.0	5	ug/L	EPA 8260B	
Zinc - Total	15.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW28 **Lab ID: C002353-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	64.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.135	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	2.9	J	1	0.018	5.0	NE	mg/L	EPA 300.0	
Cobalt - Total	3.11	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.08	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Iron - Total	174	J	1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	71.1		1	1.10	10.0	50	ug/L	EPA 6010C	
Nickel - Total	2.93	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	1.5	J	1	0.12	5.0	250000	mg/L	EPA 300.0	
Tetrachloroethene	3.1		1	0.099	1.0	1	ug/L	EPA 8260B	
Total Dissolved Solids	38		1	10	10	NE	mg/L	SM 2540C	
Vanadium - Total	2.06	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	7.22	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW29 **Lab ID: C002353-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	29.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	

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Client ID: 5503-MW29 **Lab ID: C002353-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Beryllium - Total	0.376	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	3.7	J	1	0.018	5.0	NE	mg/L	EPA 300.0	
Chromium - Total	9.38	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	2.67	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	10.8		1	1.60	10.0	10	ug/L	EPA 6010C	
Iron - Total	26600		1	22.0	50.0	300	ug/L	EPA 6010C	
Lead - Total	4.59	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Manganese - Total	48.8	J	1	1.10	10.0	50	ug/L	EPA 6010C	
Nickel - Total	5.28	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	8.4	J	1	0.12	5.0	250000	mg/L	EPA 300.0	
Total Alkalinity	37		1	8.0	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	120		1	10	10	NE	mg/L	SM 2540C	
Vanadium - Total	12.2	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	17.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW30 **Lab ID: C002353-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	35.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloride	2.9	J	1	0.018	5.0	NE	mg/L	EPA 300.0	
Copper - Total	7.09	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Iron - Total	340		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	7.56	J	1	1.10	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	3.2	J	1	0.12	5.0	250000	mg/L	EPA 300.0	
Total Dissolved Solids	70		1	10	10	NE	mg/L	SM 2540C	
Zinc - Total	4.97	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-MW31 **Lab ID: C002353-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	16.1	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.144	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	3.0	J	1	0.018	5.0	NE	mg/L	EPA 300.0	
Chromium - Total	2.96	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Iron - Total	19000		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	35.4	J	1	1.10	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	9.7	J	1	0.12	5.0	250000	mg/L	EPA 300.0	
Total Dissolved Solids	68		1	10	10	NE	mg/L	SM 2540C	
Vanadium - Total	2.82	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	6.30	J	1	3.80	10.0	10	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 5503-MW26 | **Lab Sample ID:** C002353-01 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 11:45 | **Work Order:** C002353

Project: Lincoln County LF - C&D | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 09:40	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 09:40	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 09:40	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 09:40	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 09:40	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 09:40	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 09:40	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 09:40	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 09:40	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 09:40	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 09:40	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 09:40	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 09:40	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 09:40	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 09:40	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 09:40	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 09:40	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 09:40	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 09:40	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 09:40	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 09:40	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 09:40	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 09:40	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 09:40	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 09:40	JKG	

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Description: 5503-MW26
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C002353-01
Sampled: 04/21/10 11:45
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002353

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] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 09:40	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 09:40	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 09:40	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 09:40*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*85 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 09:40*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 09:40*	*JKG*	

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Description: 5503-MW26
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C002353-01
Sampled: 04/21/10 11:45
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002353

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] ^	0.0540	U	ug/L	1	0.0540	0.200	0.2	EPA 7470A	04/22/10 15:10	NLH	

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Description: 5503-MW26 | **Lab Sample ID:** C002353-01 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 11:45 | **Work Order:** C002353

Project: Lincoln County LF - C&D | **Sampled By:** Courtney Withers

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	05/03/10 11:42	VLO	
Arsenic [7440-38-2] ^	**4.16**	J	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 11:57	JDH	
Barium [7440-39-3] ^	**45.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 11:57	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 11:57	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 11:57	JDH	
Chromium [7440-47-3] ^	**3.20**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 11:57	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 11:57	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 11:57	JDH	
Iron [7439-89-6] ^	**631**		ug/L	1	22.0	50.0	300	EPA 6010C	04/23/10 11:57	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 11:57	JDH	
Manganese [7439-96-5] ^	**29.2**	J	ug/L	1	1.10	10.0	50	EPA 6010C	04/23/10 11:57	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 11:57	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 11:42	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 11:57	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 11:42	VLO	
Vanadium [7440-62-2] ^	**1.52**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 11:57	JDH	
Zinc [7440-66-6] ^	**4.38**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 11:57	JDH	

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Description: 5503-MW26
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C002353-01
Sampled: 04/21/10 11:45
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002353

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**3.6**	J	mg/L	1	0.018	5.0	NE	EPA 300.0	04/26/10 20:38	PEV	
Sulfate as SO4 [14808-79-8] ^	**3.2**	J	mg/L	1	0.12	5.0	250000	EPA 300.0	04/26/10 20:38	PEV	
Total Alkalinity [471-34-1] ^	**20**		mg/L	1	8.0	15	NE	EPA 310.2	04/23/10 08:06	PEV	
Total Dissolved Solids [ECL-0156] ^	**52**		mg/L	1	10	10	NE	SM 2540C	04/23/10 14:00	CCB	

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

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Description: 5503-MW27 | **Lab Sample ID:** C002353-02 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 11:55 | **Work Order:** C002353

Project: Lincoln County LF - C&D | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 10:10	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 10:10	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 10:10	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 10:10	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 10:10	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 10:10	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 10:10	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 10:10	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 10:10	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 10:10	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 10:10	JKG	
Benzene [71-43-2] ^	**0.45**	J	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 10:10	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 10:10	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 10:10	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 10:10	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 10:10	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 10:10	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 10:10	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.43**	J	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 10:10	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 10:10	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 10:10	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 10:10	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 10:10	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 10:10	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 10:10	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 10:10	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 10:10	JKG	

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Description: 5503-MW27	**Lab Sample ID:** C002353-02	**Received:** 04/22/10 08:00
Matrix: Ground Water	**Sampled:** 04/21/10 11:55	**Work Order:** C002353
Project: Lincoln County LF - C&D	**Sampled By:** Courtney Withers	

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] ^	**0.40**	J	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 10:10	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 10:10*	*JKG*	
Dibromofluoromethane	*41*	*1*	*50.0*	*82 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 10:10*	*JKG*	
Toluene-d8	*41*	*1*	*50.0*	*83 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 10:10*	*JKG*	

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Description:	5503-MW27	**Lab Sample ID:**	C002353-02	**Received:**	04/22/10 08:00
Matrix:	Ground Water	**Sampled:**	04/21/10 11:55	**Work Order:**	C002353
Project:	Lincoln County LF - C&D	**Sampled By:**	Courtney Withers		

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] ^	0.0540	U	ug/L	1	0.0540	0.200	0.2	EPA 7470A	04/22/10 15:13	NLH	

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Description: 5503-MW27 | **Lab Sample ID:** C002353-02 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 11:55 | **Work Order:** C002353

Project: Lincoln County LF - C&D | **Sampled By:** Courtney Withers

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	05/03/10 12:07	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 11:59	JDH	
Barium [7440-39-3] ^	**217**		ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 11:59	JDH	
Beryllium [7440-41-7] ^	**0.630**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 11:59	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 11:59	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 11:59	JDH	
Cobalt [7440-48-4] ^	**6.24**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 11:59	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 11:59	JDH	
Iron [7439-89-6] ^	**175**	J	ug/L	1	22.0	50.0	300	EPA 6010C	04/23/10 11:59	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 11:59	JDH	
Manganese [7439-96-5] ^	**283**		ug/L	1	1.10	10.0	50	EPA 6010C	04/23/10 11:59	JDH	
Nickel [7440-02-0] ^	**7.82**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 11:59	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 12:07	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 11:59	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 12:07	VLO	
Vanadium [7440-62-2] ^	**5.26**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 11:59	JDH	
Zinc [7440-66-6] ^	**15.2**		ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 11:59	JDH	

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Description: 5503-MW27
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C002353-02
Sampled: 04/21/10 11:55
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002353

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**8.9**		mg/L	1	0.018	5.0	NE	EPA 300.0	04/26/10 21:40	PEV	
Sulfate as SO4 [14808-79-8] ^	**2.7**	J	mg/L	1	0.12	5.0	250000	EPA 300.0	04/26/10 21:40	PEV	
Total Alkalinity [471-34-1] ^	**32**		mg/L	1	8.0	15	NE	EPA 310.2	04/23/10 08:09	PEV	
Total Dissolved Solids [ECL-0156] ^	**82**		mg/L	1	10	10	NE	SM 2540C	04/23/10 14:00	CCB	

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

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Description: 5503-MW28 | **Lab Sample ID:** C002353-03 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 12:10 | **Work Order:** C002353

Project: Lincoln County LF - C&D | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 10:40	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 10:40	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 10:40	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 10:40	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 10:40	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 10:40	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 10:40	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 10:40	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 10:40	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 10:40	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 10:40	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 10:40	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 10:40	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 10:40	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 10:40	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 10:40	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 10:40	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 10:40	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 10:40	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 10:40	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 10:40	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 10:40	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
Tetrachloroethene [127-18-4] ^	**3.1**		ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 10:40	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 10:40	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 10:40	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 10:40	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 10:40	JKG	

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Description: 5503-MW28
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C002353-03
Sampled: 04/21/10 12:10
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002353

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 10:40	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 10:40*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*83 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 10:40*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*83 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 10:40*	*JKG*	

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Description:	5503-MW28	**Lab Sample ID:**	C002353-03	**Received:**	04/22/10 08:00
Matrix:	Ground Water	**Sampled:**	04/21/10 12:10	**Work Order:**	C002353
Project:	Lincoln County LF - C&D	**Sampled By:**	Courtney Withers		

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] ^	0.0540	U	ug/L	1	0.0540	0.200	0.2	EPA 7470A	04/22/10 15:21	NLH	

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Description: 5503-MW28 | **Lab Sample ID:** C002353-03 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 12:10 | **Work Order:** C002353

Project: Lincoln County LF - C&D | **Sampled By:** Courtney Withers

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	05/03/10 12:11	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 12:01	JDH	
Barium [7440-39-3] ^	**64.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 12:01	JDH	
Beryllium [7440-41-7] ^	**0.135**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 12:01	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 12:01	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 12:01	JDH	
Cobalt [7440-48-4] ^	**3.11**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 12:01	JDH	
Copper [7440-50-8] ^	**2.08**	J	ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 12:01	JDH	
Iron [7439-89-6] ^	**174**	J	ug/L	1	22.0	50.0	300	EPA 6010C	04/23/10 12:01	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:01	JDH	
Manganese [7439-96-5] ^	**71.1**		ug/L	1	1.10	10.0	50	EPA 6010C	04/23/10 12:01	JDH	
Nickel [7440-02-0] ^	**2.93**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 12:01	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 12:11	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:01	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 12:11	VLO	
Vanadium [7440-62-2] ^	**2.06**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 12:01	JDH	
Zinc [7440-66-6] ^	**7.22**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 12:01	JDH	

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Description: 5503-MW28
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C002353-03
Sampled: 04/21/10 12:10
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002353

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**2.9**	J	mg/L	1	0.018	5.0	NE	EPA 300.0	04/26/10 22:01	PEV	
Sulfate as SO4 [14808-79-8] ^	**1.5**	J	mg/L	1	0.12	5.0	250000	EPA 300.0	04/26/10 22:01	PEV	
Total Alkalinity [471-34-1] ^	8.0	U	mg/L	1	8.0	15	NE	EPA 310.2	04/23/10 08:10	PEV	
Total Dissolved Solids [ECL-0156] ^	**38**		mg/L	1	10	10	NE	SM 2540C	04/23/10 14:00	CCB	

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

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Description: 5503-MW29 | **Lab Sample ID:** C002353-04 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 10:55 | **Work Order:** C002353

Project: Lincoln County LF - C&D | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 11:09	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 11:09	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 11:09	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 11:09	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 11:09	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 11:09	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 11:09	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 11:09	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 11:09	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 11:09	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 11:09	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 11:09	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 11:09	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 11:09	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 11:09	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 11:09	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 11:09	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 11:09	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 11:09	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 11:09	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 11:09	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 11:09	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 11:09	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 11:09	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 11:09	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 11:09	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 11:09	JKG	

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Description: 5503-MW29
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C002353-04
Sampled: 04/21/10 10:55
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002353

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 11:09	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 11:09*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*87 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 11:09*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 11:09*	*JKG*	

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Description:	5503-MW29	**Lab Sample ID:**	C002353-04	**Received:**	04/22/10 08:00
Matrix:	Ground Water	**Sampled:**	04/21/10 10:55	**Work Order:**	C002353
Project:	Lincoln County LF - C&D	**Sampled By:**	Courtney Withers		

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] ^	0.0540	U	ug/L	1	0.0540	0.200	0.2	EPA 7470A	04/22/10 15:24	NLH	

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Description: 5503-MW29 | **Lab Sample ID:** C002353-04 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 10:55 | **Work Order:** C002353

Project: Lincoln County LF - C&D | **Sampled By:** Courtney Withers

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	05/03/10 12:15	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 12:04	JDH	
Barium [7440-39-3] ^	**29.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 12:04	JDH	
Beryllium [7440-41-7] ^	**0.376**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 12:04	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 12:04	JDH	
Chromium [7440-47-3] ^	**9.38**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 12:04	JDH	
Cobalt [7440-48-4] ^	**2.67**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 12:04	JDH	
Copper [7440-50-8] ^	**10.8**		ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 12:04	JDH	
Iron [7439-89-6] ^	**26600**		ug/L	1	22.0	50.0	300	EPA 6010C	04/23/10 12:04	JDH	
Lead [7439-92-1] ^	**4.59**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:04	JDH	
Manganese [7439-96-5] ^	**48.8**	J	ug/L	1	1.10	10.0	50	EPA 6010C	04/23/10 12:04	JDH	
Nickel [7440-02-0] ^	**5.28**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 12:04	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 12:15	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:04	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 12:15	VLO	
Vanadium [7440-62-2] ^	**12.2**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 12:04	JDH	
Zinc [7440-66-6] ^	**17.5**		ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 12:04	JDH	

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Description: 5503-MW29
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C002353-04
Sampled: 04/21/10 10:55
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002353

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**3.7**	J	mg/L	1	0.018	5.0	NE	EPA 300.0	04/26/10 22:22	PEV	
Sulfate as SO4 [14808-79-8] ^	**8.4**	J	mg/L	1	0.12	5.0	250000	EPA 300.0	04/26/10 22:22	PEV	
Total Alkalinity [471-34-1] ^	**37**		mg/L	1	8.0	15	NE	EPA 310.2	04/23/10 08:10	PEV	
Total Dissolved Solids [ECL-0156] ^	**120**		mg/L	1	10	10	NE	SM 2540C	04/23/10 14:00	CCB	

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Description: 5503-MW30 | **Lab Sample ID:** C002353-05 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 11:10 | **Work Order:** C002353

Project: Lincoln County LF - C&D | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 11:39	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 11:39	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 11:39	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 11:39	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 11:39	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 11:39	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 11:39	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 11:39	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 11:39	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 11:39	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 11:39	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 11:39	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 11:39	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 11:39	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 11:39	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 11:39	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 11:39	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 11:39	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 11:39	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 11:39	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 11:39	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 11:39	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 11:39	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 11:39	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 11:39	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 11:39	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 11:39	JKG	

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Description: 5503-MW30
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C002353-05
Sampled: 04/21/10 11:10
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002353

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 11:39	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0D29033*	*EPA 8260B*	*04/30/10 11:39*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*0D29033*	*EPA 8260B*	*04/30/10 11:39*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*88 %*	*69-110*	*0D29033*	*EPA 8260B*	*04/30/10 11:39*	*JKG*	

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Description:	5503-MW30	**Lab Sample ID:**	C002353-05	**Received:**	04/22/10 08:00
Matrix:	Ground Water	**Sampled:**	04/21/10 11:10	**Work Order:**	C002353
Project:	Lincoln County LF - C&D	**Sampled By:**	Courtney Withers		

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] ^	0.0540	U	ug/L	1	0.0540	0.200	0.2	EPA 7470A	04/22/10 15:26	NLH	

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Description: 5503-MW30 | **Lab Sample ID:** C002353-05 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 11:10 | **Work Order:** C002353

Project: Lincoln County LF - C&D | **Sampled By:** Courtney Withers

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	05/03/10 12:18	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 12:06	JDH	
Barium [7440-39-3] ^	**35.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 12:06	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 12:06	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 12:06	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 12:06	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 12:06	JDH	
Copper [7440-50-8] ^	**7.09**	J	ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 12:06	JDH	
Iron [7439-89-6] ^	**340**		ug/L	1	22.0	50.0	300	EPA 6010C	04/23/10 12:06	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:06	JDH	
Manganese [7439-96-5] ^	**7.56**	J	ug/L	1	1.10	10.0	50	EPA 6010C	04/23/10 12:06	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 12:06	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 12:18	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:06	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 12:18	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 12:06	JDH	
Zinc [7440-66-6] ^	**4.97**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 12:06	JDH	

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Description: 5503-MW30
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C002353-05
Sampled: 04/21/10 11:10
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002353

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**2.9**	J	mg/L	1	0.018	5.0	NE	EPA 300.0	04/26/10 22:42	PEV	
Sulfate as SO4 [14808-79-8] ^	**3.2**	J	mg/L	1	0.12	5.0	250000	EPA 300.0	04/26/10 22:42	PEV	
Total Alkalinity [471-34-1] ^	8.0	U	mg/L	1	8.0	15	NE	EPA 310.2	04/23/10 08:11	PEV	
Total Dissolved Solids [ECL-0156] ^	**70**		mg/L	1	10	10	NE	SM 2540C	04/23/10 14:00	CCB	

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

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Description: 5503-MW31 | **Lab Sample ID:** C002353-06 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 11:20 | **Work Order:** C002353

Project: Lincoln County LF - C&D | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/01/10 00:08	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/01/10 00:08	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/01/10 00:08	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/01/10 00:08	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/01/10 00:08	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/01/10 00:08	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/01/10 00:08	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/01/10 00:08	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/01/10 00:08	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/01/10 00:08	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/01/10 00:08	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/01/10 00:08	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/01/10 00:08	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/01/10 00:08	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/01/10 00:08	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/01/10 00:08	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/01/10 00:08	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/01/10 00:08	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/01/10 00:08	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/01/10 00:08	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/01/10 00:08	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/01/10 00:08	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/01/10 00:08	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/01/10 00:08	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 00:08	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/01/10 00:08	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/01/10 00:08	JKG	

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Description: 5503-MW31
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C002353-06
Sampled: 04/21/10 11:20
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002353

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/01/10 00:08	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*95 %*	*51-122*	*0D30014*	*EPA 8260B*	*05/01/10 00:08*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*0D30014*	*EPA 8260B*	*05/01/10 00:08*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*87 %*	*69-110*	*0D30014*	*EPA 8260B*	*05/01/10 00:08*	*JKG*	

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Description:	5503-MW31	**Lab Sample ID:**	C002353-06	**Received:**	04/22/10 08:00
Matrix:	Ground Water	**Sampled:**	04/21/10 11:20	**Work Order:**	C002353
Project:	Lincoln County LF - C&D	**Sampled By:**	Courtney Withers		

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] ^	0.0540	U	ug/L	1	0.0540	0.200	0.2	EPA 7470A	04/22/10 15:29	NLH	

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Description: 5503-MW31
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C002353-06
Sampled: 04/21/10 11:20
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002353

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	05/03/10 12:22	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 12:15	JDH	
Barium [7440-39-3] ^	**16.1**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 12:15	JDH	
Beryllium [7440-41-7] ^	**0.144**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 12:15	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 12:15	JDH	
Chromium [7440-47-3] ^	**2.96**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 12:15	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 12:15	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 12:15	JDH	
Iron [7439-89-6] ^	**19000**		ug/L	1	22.0	50.0	300	EPA 6010C	04/23/10 12:15	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:15	JDH	
Manganese [7439-96-5] ^	**35.4**	J	ug/L	1	1.10	10.0	50	EPA 6010C	04/23/10 12:15	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 12:15	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/10 12:22	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:15	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/10 12:22	VLO	
Vanadium [7440-62-2] ^	**2.82**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 12:15	JDH	
Zinc [7440-66-6] ^	**6.30**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 12:15	JDH	

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Description: 5503-MW31
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C002353-06
Sampled: 04/21/10 11:20
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002353

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**3.0**	J	mg/L	1	0.018	5.0	NE	EPA 300.0	04/26/10 23:03	PEV	
Sulfate as SO4 [14808-79-8] ^	**9.7**	J	mg/L	1	0.12	5.0	250000	EPA 300.0	04/26/10 23:03	PEV	
Total Alkalinity [471-34-1] ^	8.0	U	mg/L	1	8.0	15	NE	EPA 310.2	04/23/10 08:12	PEV	
Total Dissolved Solids [ECL-0156] ^	**68**		mg/L	1	10	10	NE	SM 2540C	04/23/10 14:00	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 0D29033 - EPA 5030B_MS

Blank (0D29033-BLK1) Prepared: 04/29/2010 14:55 Analyzed: 04/30/2010 01:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*88*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0D29033 - EPA 5030B_MS

Blank (0D29033-BLK1) Continued Prepared: 04/29/2010 14:55 Analyzed: 04/30/2010 01:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*69-110*			

LCS (0D29033-BS1) Prepared: 04/29/2010 14:55 Analyzed: 04/30/2010 02:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		102	75-133			
Benzene	19		1.0	ug/L	20.0		94	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	75-115			

Matrix Spike (0D29033-MS1) Prepared: 04/29/2010 14:55 Analyzed: 04/30/2010 02:50

Source: C004891-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	98	75-133			
Benzene	19		1.0	ug/L	20.0	0.050 U	96	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.069 U	96	83-117			
Toluene	20		1.0	ug/L	20.0	0.053 U	100	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	100	75-115			

Matrix Spike Dup (0D29033-MSD1) Prepared: 04/29/2010 14:55 Analyzed: 04/30/2010 03:19

Source: C004891-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	98	75-133	0.2	20	
Benzene	19		1.0	ug/L	20.0	0.050 U	96	81-134	0.05	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	100	83-117	4	16	
Toluene	21		1.0	ug/L	20.0	0.053 U	105	71-118	4	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	99	75-115	0.7	18	

Batch 0D30014 - EPA 5030B_MS

Blank (0D30014-BLK1) Prepared: 04/30/2010 10:38 Analyzed: 04/30/2010 14:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0D30014 - EPA 5030B_MS

Blank (0D30014-BLK1) Continued Prepared: 04/30/2010 10:38 Analyzed: 04/30/2010 14:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*91*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*86*	*69-110*			

LCS (0D30014-BS1) Prepared: 04/30/2010 10:38 Analyzed: 04/30/2010 15:16

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		106	75-133			
Benzene	19		1.0	ug/L	20.0		96	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	20		1.0	ug/L	20.0		102	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0D30014 - EPA 5030B_MS

LCS (0D30014-BS1) Continued Prepared: 04/30/2010 10:38 Analyzed: 04/30/2010 15:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	20		1.0	ug/L	20.0		101	75-115			

Matrix Spike (0D30014-MS1) Prepared: 04/30/2010 10:38 Analyzed: 04/30/2010 15:45

Source: C004891-10

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	0.15 U	106	75-133			
Benzene	19		1.0	ug/L	20.0	0.050 U	95	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	98	83-117			
Toluene	20		1.0	ug/L	20.0	0.053 U	102	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	100	75-115			

Matrix Spike Dup (0D30014-MSD1) Prepared: 04/30/2010 10:38 Analyzed: 04/30/2010 16:15

Source: C004891-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	101	75-133	5	20	
Benzene	19		1.0	ug/L	20.0	0.050 U	94	81-134	0.8	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	99	83-117	0.8	16	
Toluene	20		1.0	ug/L	20.0	0.053 U	101	71-118	0.8	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	101	75-115	0.4	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0D22017 - EPA 245.1

Blank (0D22017-BLK1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0540	U	0.200	ug/L							

LCS (0D22017-BS1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.29		0.200	ug/L	5.00		106	85-115			

Matrix Spike (0D22017-MS1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:54

Source: C002355-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.76		0.200	ug/L	5.00	0.0540 U	95	85-115			

Matrix Spike Dup (0D22017-MSD1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:57

Source: C002355-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.01		0.200	ug/L	5.00	0.0540 U	100	85-115	5	15	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0D22017 - EPA 245.1

Post Spike (0D22017-PS1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:59

Source: C002355-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.12		0.200	ug/L	5.00	-0.0594	84	75-125			

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

Batch 0D22018 - EPA 3005A

Blank (0D22018-BLK1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:24

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							
Iron	22.0	U	50.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Manganese	1.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0D22018-BS1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	975		10.0	ug/L	1000		98	80-120			
Barium	970		10.0	ug/L	1000		97	80-120			
Beryllium	501		1.00	ug/L	500		100	80-120			
Cadmium	480		1.00	ug/L	500		96	80-120			
Chromium	982		10.0	ug/L	1000		98	80-120			
Cobalt	943		10.0	ug/L	1000		94	80-120			
Copper	493		10.0	ug/L	500		99	80-120			
Iron	9600		50.0	ug/L	10000		96	80-120			
Lead	978		10.0	ug/L	1000		98	80-120			
Manganese	483		10.0	ug/L	500		97	80-120			
Nickel	968		10.0	ug/L	1000		97	80-120			
Silver	96.1		10.0	ug/L	100		96	80-120			
Vanadium	483		10.0	ug/L	500		97	80-120			
Zinc	984		10.0	ug/L	1000		98	80-120			

Matrix Spike (0D22018-MS1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:31

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

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

Batch 0D22018 - EPA 3005A

Matrix Spike (0D22018-MS1) Continued Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:31

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	953		10.0	ug/L	1000	32.7	92	75-125			
Barium	1420		10.0	ug/L	1000	438	98	75-125			
Beryllium	491		1.00	ug/L	500	0.100 U	98	75-125			
Cadmium	453		1.00	ug/L	500	0.360 U	91	75-125			
Chromium	1000		10.0	ug/L	1000	51.1	95	75-125			
Cobalt	945		10.0	ug/L	1000	35.7	91	75-125			
Copper	525		10.0	ug/L	500	10.1	103	75-125			
Iron	74900		50.0	ug/L	10000	63300	116	75-125			
Lead	897		10.0	ug/L	1000	12.0	89	75-125			
Manganese	6280		10.0	ug/L	500	5650	124	75-125			
Nickel	965		10.0	ug/L	1000	47.5	92	75-125			
Silver	101		10.0	ug/L	100	6.14	95	75-125			
Vanadium	516		10.0	ug/L	500	40.0	95	75-125			
Zinc	1190		10.0	ug/L	1000	234	95	75-125			

Matrix Spike Dup (0D22018-MSD1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:34

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	925		10.0	ug/L	1000	32.7	89	75-125	3	20	
Barium	1360		10.0	ug/L	1000	438	93	75-125	4	20	
Beryllium	474		1.00	ug/L	500	0.100 U	95	75-125	3	20	
Cadmium	438		1.00	ug/L	500	0.360 U	88	75-125	3	20	
Chromium	968		10.0	ug/L	1000	51.1	92	75-125	3	20	
Cobalt	913		10.0	ug/L	1000	35.7	88	75-125	3	20	
Copper	506		10.0	ug/L	500	10.1	99	75-125	4	20	
Iron	72600		50.0	ug/L	10000	63300	92	75-125	3	20	
Lead	872		10.0	ug/L	1000	12.0	86	75-125	3	20	
Manganese	6070		10.0	ug/L	500	5650	84	75-125	3	20	
Nickel	932		10.0	ug/L	1000	47.5	88	75-125	3	20	
Silver	97.3		10.0	ug/L	100	6.14	91	75-125	4	20	
Vanadium	499		10.0	ug/L	500	40.0	92	75-125	3	20	
Zinc	1150		10.0	ug/L	1000	234	91	75-125	3	20	

Post Spike (0D22018-PS1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:44

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.959		0.0100	mg/L	1.00	0.0327	93	80-120			
Barium	1.41		0.0100	mg/L	1.00	0.438	97	80-120			
Beryllium	0.491		0.00100	mg/L	0.500	-0.000549	98	80-120			
Cadmium	0.457		0.00100	mg/L	0.500	-0.000247	91	80-120			
Chromium	1.01		0.0100	mg/L	1.00	0.0511	95	80-120			
Cobalt	0.955		0.0100	mg/L	1.00	0.0357	92	80-120			
Copper	0.525		0.0100	mg/L	0.500	0.0101	103	80-120			
Iron	72.1		0.0500	mg/L	10.0	63.3	87	80-120			
Lead	0.898		0.0100	mg/L	1.00	0.0120	89	80-120			

QUALITY CONTROL

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

Batch 0D22018 - EPA 3005A

Post Spike (0D22018-PS1) Continued Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:44

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Manganese	6.08		0.0100	mg/L	0.500	5.65	86	80-120			
Nickel	0.965		0.0100	mg/L	1.00	0.0475	92	80-120			
Silver	0.104		0.0100	mg/L	0.100	0.00614	98	80-120			
Vanadium	0.518		0.0100	mg/L	0.500	0.0400	96	80-120			
Zinc	1.19		0.0100	mg/L	1.00	0.234	95	80-120			

Batch 0D23010 - EPA 3005A

Blank (0D23010-BLK1) Prepared: 04/23/2010 08:56 Analyzed: 05/03/2010 11:35

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 (0D23010-BS1) Prepared: 04/23/2010 08:56 Analyzed: 05/03/2010 11:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.0		2.00	ug/L	25.0		104	80-120			
Selenium	25.8		1.00	ug/L	25.0		103	80-120			
Thallium	26.7		1.00	ug/L	25.0		107	80-120			

Matrix Spike (0D23010-MS1) Prepared: 04/23/2010 08:56 Analyzed: 05/03/2010 11:53

Source: C002353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.0		2.00	ug/L	25.0	0.220 U	104	75-125			
Selenium	28.0		1.00	ug/L	25.0	0.830 U	112	75-125			
Thallium	27.4		1.00	ug/L	25.0	0.110 U	109	75-125			

Matrix Spike Dup (0D23010-MSD1) Prepared: 04/23/2010 08:56 Analyzed: 05/03/2010 11:57

Source: C002353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.3		2.00	ug/L	25.0	0.220 U	105	75-125	1	20	
Selenium	25.7		1.00	ug/L	25.0	0.830 U	103	75-125	8	20	
Thallium	27.2		1.00	ug/L	25.0	0.110 U	109	75-125	0.5	20	

Post Spike (0D23010-PS1) Prepared: 04/23/2010 08:56 Analyzed: 05/03/2010 12:00

Source: C002353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.5		2.00	ug/L	25.0	0.0250	110	80-120			
Selenium	28.0		1.00	ug/L	25.0	-0.188	113	80-120			
Thallium	27.9		1.00	ug/L	25.0	-0.101	112	80-120			

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0D23004 - NO PREP

Blank (0D23004-BLK1) Prepared: 04/23/2010 07:15 Analyzed: 04/23/2010 08:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	8.0	U	15	mg/L							

LCS (0D23004-BS1) Prepared: 04/23/2010 07:15 Analyzed: 04/23/2010 08:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100		101	80-120			

Matrix Spike (0D23004-MS1) Prepared: 04/23/2010 07:15 Analyzed: 04/23/2010 08:07

Source: C002353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	120		15	mg/L	100	20	101	80-120			

Matrix Spike Dup (0D23004-MSD1) Prepared: 04/23/2010 07:15 Analyzed: 04/23/2010 08:08

Source: C002353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	120		15	mg/L	100	20	99	80-120	2	25	

Batch 0D23018 - NO PREP

Blank (0D23018-BLK1) Prepared & Analyzed: 04/23/2010 14:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

LCS (0D23018-BS1) Prepared & Analyzed: 04/23/2010 14:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	300		10	mg/L	300		101	90-110			

Duplicate (0D23018-DUP1) Prepared & Analyzed: 04/23/2010 14:00

Source: C002353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	56		10	mg/L		52			7	10	

Batch 0D26007 - NO PREP

Blank (0D26007-BLK1) Prepared: 04/26/2010 07:39 Analyzed: 04/26/2010 19:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	0.018	U	5.0	mg/L							
Sulfate as SO4	0.12	U	5.0	mg/L							

LCS (0D26007-BS1) Prepared: 04/26/2010 07:39 Analyzed: 04/26/2010 19:36

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0D26007 - NO PREP

LCS (0D26007-BS1) Continued Prepared: 04/26/2010 07:39 Analyzed: 04/26/2010 19:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	48		5.0	mg/L	50.0		97	90-110			
Sulfate as SO4	47		5.0	mg/L	50.0		94	90-110			

Matrix Spike (0D26007-MS1) Prepared: 04/26/2010 07:39 Analyzed: 04/26/2010 19:57

Source: C002353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	51		5.0	mg/L	50.0	3.6	96	80-120			
Sulfate as SO4	50		5.0	mg/L	50.0	3.2	94	80-120			

Matrix Spike Dup (0D26007-MSD1) Prepared: 04/26/2010 07:39 Analyzed: 04/26/2010 20:18

Source: C002353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	52		5.0	mg/L	50.0	3.6	96	80-120	0.7	15	
Sulfate as SO4	51		5.0	mg/L	50.0	3.2	96	80-120	1	15	

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

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Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
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(904) 296-3007 Fax (904) 296-6210

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

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-07-004
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Lincoln County LF - C&D
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: ~~50341~~ 51689
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Courtney Withers	Billing Contact: Barbara Ellington
Sampler(s) Signature: Courtney Withers	Facility # (if required): 55-03

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C002353

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 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,TDS SM2540C	Hg	Sulfate 300						Sample Comments
	5503-MW26	4/21/10	1145	GRAB	GW	6	X	X	X	X	X						
	5503-MW27		1155		GW	6	X	X	X	X	X						
	5503-MW28		1210		GW	6	X	X	X	X	X						
	5503-MW29		1055		GW	6	X	X	X	X	X						
	5503-MW30		1110		GW	6	X	X	X	X	X						
	5503-MW31	4/21/10	1120		GW	6	X	X	X	X	X						

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
BJG	3/9/10	Courtney Withers	4/21/10 1700	Briana Gregory	4/22/10 08:00
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-25 1.8°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil 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

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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
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Tuesday, May 4, 2010

S&ME, Inc. (SM002)

Attn: Courtney Withers

9751 Southern Pine Blvd.

Charlotte, NC 28273

RE: Laboratory Results for
Project Number: 1356-07-004, Project Name/Desc: Lincoln County LF - Surface Waters
ENCO Workorder: C002355

Dear Courtney Withers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, April 22, 2010.

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 32.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 5503-SW1	Lab ID: C002355-01	Sampled: 04/21/10 11:30	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/18/10	04/22/10 10:06	4/23/2010 12:20
EPA 6020A	10/18/10	04/22/10 09:54	4/30/2010 10:29
EPA 7470A	05/19/10	04/22/10 10:02	4/22/2010 15:32
EPA 8260B	05/05/10	04/30/10 10:43	5/1/2010 07:28

Client ID: 5503-SW2	Lab ID: C002355-02	Sampled: 04/21/10 14:30	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/18/10	04/22/10 10:06	4/23/2010 12:23
EPA 6020A	10/18/10	04/22/10 09:54	4/30/2010 10:33
EPA 7470A	05/19/10	04/22/10 10:02	4/22/2010 15:35
EPA 8260B	05/05/10	04/30/10 10:43	5/1/2010 07:57

Client ID: 5503-SW3	Lab ID: C002355-03	Sampled: 04/21/10 14:45	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/18/10	04/22/10 10:06	4/23/2010 12:25
EPA 6020A	10/18/10	04/22/10 09:54	4/30/2010 10:37
EPA 7470A	05/19/10	04/22/10 10:02	4/22/2010 15:38
EPA 8260B	05/05/10	04/30/10 10:43	5/1/2010 08:26

Client ID: 5503-SW4	Lab ID: C002355-04	Sampled: 04/21/10 14:05	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/18/10	04/22/10 10:06	4/23/2010 12:27
EPA 6020A	10/18/10	04/22/10 09:54	4/30/2010 10:40
EPA 7470A	05/19/10	04/22/10 10:02	4/22/2010 15:41
EPA 8260B	05/05/10	04/30/10 10:43	5/1/2010 08:56

Client ID: 5503-SW5	Lab ID: C002355-05	Sampled: 04/21/10 14:00	Received: 04/22/10 08:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/18/10	04/22/10 10:06	4/23/2010 12:30
EPA 6020A	10/18/10	04/22/10 09:54	4/30/2010 10:44
EPA 7470A	05/19/10	04/22/10 10:02	4/22/2010 14:50
EPA 8260B	05/05/10	04/30/10 10:43	5/1/2010 09:25

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 5503-SW1 **Lab ID: C002355-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	57.1	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	1.18	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.67	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Iron - Total	2380		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	349		1	1.10	10.0	50	ug/L	EPA 6010C	
Nickel - Total	2.91	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	1.45	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	17.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW2 **Lab ID: C002355-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	32.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Total	7.73	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Iron - Total	1040		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	132		1	1.10	10.0	50	ug/L	EPA 6010C	
Zinc - Total	21.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW3 **Lab ID: C002355-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	59.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	13.8		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.00	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	13.7		1	1.60	10.0	10	ug/L	EPA 6010C	
Iron - Total	5490		1	22.0	50.0	300	ug/L	EPA 6010C	
Lead - Total	5.38	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Manganese - Total	70.4		1	1.10	10.0	50	ug/L	EPA 6010C	
Nickel - Total	2.89	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	16.6	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	11.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW4 **Lab ID: C002355-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.422	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	22.1	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Total	13.0		1	1.60	10.0	10	ug/L	EPA 6010C	
Iron - Total	455		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	46.4	J	1	1.10	10.0	50	ug/L	EPA 6010C	

Client ID: 5503-SW5 **Lab ID: C002355-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	67.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	1.23	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	29.5		1	1.10	10.0	10	ug/L	EPA 6010C	
Iron - Total	24900		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	1530		1	1.10	10.0	50	ug/L	EPA 6010C	
Nickel - Total	2.26	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	1.74	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	6.66	J	1	3.80	10.0	10	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 5503-SW1 **Lab Sample ID:** C002355-01 **Received:** 04/22/10 08:00
Matrix: Surface Water **Sampled:** 04/21/10 11:30 **Work Order:** C002355
Project: Lincoln County LF - Surface Waters **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/01/10 07:28	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/01/10 07:28	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/01/10 07:28	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/01/10 07:28	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/01/10 07:28	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/01/10 07:28	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/01/10 07:28	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/01/10 07:28	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/01/10 07:28	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/01/10 07:28	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/01/10 07:28	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/01/10 07:28	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/01/10 07:28	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/01/10 07:28	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/01/10 07:28	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/01/10 07:28	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/01/10 07:28	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/01/10 07:28	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/01/10 07:28	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/01/10 07:28	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/01/10 07:28	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/01/10 07:28	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/01/10 07:28	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/01/10 07:28	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/01/10 07:28	JKG	

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Matrix: Surface Water | **Sampled:** 04/21/10 11:30 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/01/10 07:28	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/01/10 07:28	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/01/10 07:28	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*51-122*	*0D30015*	*EPA 8260B*	*05/01/10 07:28*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*0D30015*	*EPA 8260B*	*05/01/10 07:28*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0D30015*	*EPA 8260B*	*05/01/10 07:28*	*JKG*	

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Description:	5503-SW1	**Lab Sample ID:**	C002355-01	**Received:**	04/22/10 08:00
Matrix:	Surface Water	**Sampled:**	04/21/10 11:30	**Work Order:**	C002355
Project:	Lincoln County LF - Surface Waters	**Sampled By:**	Courtney Withers		

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] ^	0.0540	U	ug/L	1	0.0540	0.200	0.2	EPA 7470A	04/22/10 15:32	NLH	

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Matrix: Surface Water | **Sampled:** 04/21/10 11:30 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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	04/30/10 10:29	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 12:20	JDH	
Barium [7440-39-3] ^	**57.1**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 12:20	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 12:20	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 12:20	JDH	
Chromium [7440-47-3] ^	**1.18**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 12:20	JDH	
Cobalt [7440-48-4] ^	**3.67**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 12:20	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 12:20	JDH	
Iron [7439-89-6] ^	**2380**		ug/L	1	22.0	50.0	300	EPA 6010C	04/23/10 12:20	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:20	JDH	
Manganese [7439-96-5] ^	**349**		ug/L	1	1.10	10.0	50	EPA 6010C	04/23/10 12:20	JDH	
Nickel [7440-02-0] ^	**2.91**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 12:20	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/10 10:29	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:20	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/10 10:29	VLO	
Vanadium [7440-62-2] ^	**1.45**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 12:20	JDH	
Zinc [7440-66-6] ^	**17.3**		ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 12:20	JDH	

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

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Description: 5503-SW2 | **Lab Sample ID:** C002355-02 | **Received:** 04/22/10 08:00

Matrix: Surface Water | **Sampled:** 04/21/10 14:30 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/01/10 07:57	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/01/10 07:57	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/01/10 07:57	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/01/10 07:57	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/01/10 07:57	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/01/10 07:57	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/01/10 07:57	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/01/10 07:57	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/01/10 07:57	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/01/10 07:57	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/01/10 07:57	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/01/10 07:57	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/01/10 07:57	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/01/10 07:57	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/01/10 07:57	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/01/10 07:57	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/01/10 07:57	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/01/10 07:57	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/01/10 07:57	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/01/10 07:57	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/01/10 07:57	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/01/10 07:57	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/01/10 07:57	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/01/10 07:57	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 07:57	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/01/10 07:57	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/01/10 07:57	JKG	

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Description: 5503-SW2 | **Lab Sample ID:** C002355-02 | **Received:** 04/22/10 08:00

Matrix: Surface Water | **Sampled:** 04/21/10 14:30 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/01/10 07:57	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*0D30015*	*EPA 8260B*	*05/01/10 07:57*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*0D30015*	*EPA 8260B*	*05/01/10 07:57*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*87 %*	*69-110*	*0D30015*	*EPA 8260B*	*05/01/10 07:57*	*JKG*	

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Description:	5503-SW2	**Lab Sample ID:**	C002355-02	**Received:**	04/22/10 08:00
Matrix:	Surface Water	**Sampled:**	04/21/10 14:30	**Work Order:**	C002355
Project:	Lincoln County LF - Surface Waters	**Sampled By:**	Courtney Withers		

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] ^	0.0540	U	ug/L	1	0.0540	0.200	0.2	EPA 7470A	04/22/10 15:35	NLH	

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Description: 5503-SW2 | **Lab Sample ID:** C002355-02 | **Received:** 04/22/10 08:00

Matrix: Surface Water | **Sampled:** 04/21/10 14:30 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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	04/30/10 10:33	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 12:23	JDH	
Barium [7440-39-3] ^	**32.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 12:23	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 12:23	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 12:23	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 12:23	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 12:23	JDH	
Copper [7440-50-8] ^	**7.73**	J	ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 12:23	JDH	
Iron [7439-89-6] ^	**1040**		ug/L	1	22.0	50.0	300	EPA 6010C	04/23/10 12:23	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:23	JDH	
Manganese [7439-96-5] ^	**132**		ug/L	1	1.10	10.0	50	EPA 6010C	04/23/10 12:23	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 12:23	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/10 10:33	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:23	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/10 10:33	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 12:23	JDH	
Zinc [7440-66-6] ^	**21.5**		ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 12:23	JDH	

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

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Description: 5503-SW3 | **Lab Sample ID:** C002355-03 | **Received:** 04/22/10 08:00

Matrix: Surface Water | **Sampled:** 04/21/10 14:45 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/01/10 08:26	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/01/10 08:26	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/01/10 08:26	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/01/10 08:26	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/01/10 08:26	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/01/10 08:26	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/01/10 08:26	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/01/10 08:26	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/01/10 08:26	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/01/10 08:26	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/01/10 08:26	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/01/10 08:26	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/01/10 08:26	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/01/10 08:26	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/01/10 08:26	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/01/10 08:26	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/01/10 08:26	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/01/10 08:26	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/01/10 08:26	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/01/10 08:26	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/01/10 08:26	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/01/10 08:26	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/01/10 08:26	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/01/10 08:26	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 08:26	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/01/10 08:26	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/01/10 08:26	JKG	

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Description: 5503-SW3 | **Lab Sample ID:** C002355-03 | **Received:** 04/22/10 08:00

Matrix: Surface Water | **Sampled:** 04/21/10 14:45 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/01/10 08:26	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*0D30015*	*EPA 8260B*	*05/01/10 08:26*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*0D30015*	*EPA 8260B*	*05/01/10 08:26*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*88 %*	*69-110*	*0D30015*	*EPA 8260B*	*05/01/10 08:26*	*JKG*	

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Description:	5503-SW3	**Lab Sample ID:**	C002355-03	**Received:**	04/22/10 08:00
Matrix:	Surface Water	**Sampled:**	04/21/10 14:45	**Work Order:**	C002355
Project:	Lincoln County LF - Surface Waters	**Sampled By:**	Courtney Withers		

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] ^	0.0540	U	ug/L	1	0.0540	0.200	0.2	EPA 7470A	04/22/10 15:38	NLH	

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Description: 5503-SW3 | **Lab Sample ID:** C002355-03 | **Received:** 04/22/10 08:00

Matrix: Surface Water | **Sampled:** 04/21/10 14:45 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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	04/30/10 10:37	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 12:25	JDH	
Barium [7440-39-3] ^	**59.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 12:25	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 12:25	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 12:25	JDH	
Chromium [7440-47-3] ^	**13.8**		ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 12:25	JDH	
Cobalt [7440-48-4] ^	**3.00**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 12:25	JDH	
Copper [7440-50-8] ^	**13.7**		ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 12:25	JDH	
Iron [7439-89-6] ^	**5490**		ug/L	1	22.0	50.0	300	EPA 6010C	04/23/10 12:25	JDH	
Lead [7439-92-1] ^	**5.38**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:25	JDH	
Manganese [7439-96-5] ^	**70.4**		ug/L	1	1.10	10.0	50	EPA 6010C	04/23/10 12:25	JDH	
Nickel [7440-02-0] ^	**2.89**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 12:25	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/10 10:37	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:25	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/10 10:37	VLO	
Vanadium [7440-62-2] ^	**16.6**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 12:25	JDH	
Zinc [7440-66-6] ^	**11.3**		ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 12:25	JDH	

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

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Description: 5503-SW4 | **Lab Sample ID:** C002355-04 | **Received:** 04/22/10 08:00

Matrix: Surface Water | **Sampled:** 04/21/10 14:05 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/01/10 08:56	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/01/10 08:56	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/01/10 08:56	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/01/10 08:56	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/01/10 08:56	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/01/10 08:56	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/01/10 08:56	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/01/10 08:56	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/01/10 08:56	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/01/10 08:56	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/01/10 08:56	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/01/10 08:56	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/01/10 08:56	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/01/10 08:56	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/01/10 08:56	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/01/10 08:56	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/01/10 08:56	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/01/10 08:56	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/01/10 08:56	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/01/10 08:56	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/01/10 08:56	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/01/10 08:56	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/01/10 08:56	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/01/10 08:56	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 08:56	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/01/10 08:56	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/01/10 08:56	JKG	

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Description: 5503-SW4 | **Lab Sample ID:** C002355-04 | **Received:** 04/22/10 08:00

Matrix: Surface Water | **Sampled:** 04/21/10 14:05 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/01/10 08:56	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0D30015*	*EPA 8260B*	*05/01/10 08:56*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*87 %*	*68-117*	*0D30015*	*EPA 8260B*	*05/01/10 08:56*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*69-110*	*0D30015*	*EPA 8260B*	*05/01/10 08:56*	*JKG*	

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Description:	5503-SW4	**Lab Sample ID:**	C002355-04	**Received:**	04/22/10 08:00
Matrix:	Surface Water	**Sampled:**	04/21/10 14:05	**Work Order:**	C002355
Project:	Lincoln County LF - Surface Waters	**Sampled By:**	Courtney Withers		

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] ^	0.0540	U	ug/L	1	0.0540	0.200	0.2	EPA 7470A	04/22/10 15:41	NLH	

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Description: 5503-SW4 | **Lab Sample ID:** C002355-04 | **Received:** 04/22/10 08:00

Matrix: Surface Water | **Sampled:** 04/21/10 14:05 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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] ^	**0.422**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/10 10:40	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 12:27	JDH	
Barium [7440-39-3] ^	**22.1**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 12:27	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 12:27	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 12:27	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 12:27	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 12:27	JDH	
Copper [7440-50-8] ^	**13.0**		ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 12:27	JDH	
Iron [7439-89-6] ^	**455**		ug/L	1	22.0	50.0	300	EPA 6010C	04/23/10 12:27	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:27	JDH	
Manganese [7439-96-5] ^	**46.4**	J	ug/L	1	1.10	10.0	50	EPA 6010C	04/23/10 12:27	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 12:27	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/10 10:40	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:27	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/10 10:40	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 12:27	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 12:27	JDH	

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

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Description: 5503-SW5 | **Lab Sample ID:** C002355-05 | **Received:** 04/22/10 08:00

Matrix: Surface Water | **Sampled:** 04/21/10 14:00 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/01/10 09:25	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/01/10 09:25	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/01/10 09:25	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/01/10 09:25	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/01/10 09:25	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/01/10 09:25	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/01/10 09:25	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/01/10 09:25	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/01/10 09:25	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/01/10 09:25	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/01/10 09:25	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/01/10 09:25	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/01/10 09:25	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/01/10 09:25	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/01/10 09:25	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/01/10 09:25	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/01/10 09:25	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/01/10 09:25	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/01/10 09:25	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/01/10 09:25	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/01/10 09:25	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/01/10 09:25	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/01/10 09:25	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/01/10 09:25	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 09:25	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/01/10 09:25	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/01/10 09:25	JKG	

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Description: 5503-SW5 | **Lab Sample ID:** C002355-05 | **Received:** 04/22/10 08:00

Matrix: Surface Water | **Sampled:** 04/21/10 14:00 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/01/10 09:25	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0D30015*	*EPA 8260B*	*05/01/10 09:25*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*0D30015*	*EPA 8260B*	*05/01/10 09:25*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*85 %*	*69-110*	*0D30015*	*EPA 8260B*	*05/01/10 09:25*	*JKG*	

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Description:	5503-SW5	**Lab Sample ID:**	C002355-05	**Received:**	04/22/10 08:00
Matrix:	Surface Water	**Sampled:**	04/21/10 14:00	**Work Order:**	C002355
Project:	Lincoln County LF - Surface Waters	**Sampled By:**	Courtney Withers		

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] ^	0.0540	U	ug/L	1	0.0540	0.200	0.2	EPA 7470A	04/22/10 14:50	NLH	

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Description: 5503-SW5 | **Lab Sample ID:** C002355-05 | **Received:** 04/22/10 08:00

Matrix: Surface Water | **Sampled:** 04/21/10 14:00 | **Work Order:** C002355

Project: Lincoln County LF - Surface Waters | **Sampled By:** Courtney Withers

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	04/30/10 10:44	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 12:30	JDH	
Barium [7440-39-3] ^	**67.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 12:30	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 12:30	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 12:30	JDH	
Chromium [7440-47-3] ^	**1.23**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 12:30	JDH	
Cobalt [7440-48-4] ^	**29.5**		ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 12:30	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 12:30	JDH	
Iron [7439-89-6] ^	**24900**		ug/L	1	22.0	50.0	300	EPA 6010C	04/23/10 12:30	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:30	JDH	
Manganese [7439-96-5] ^	**1530**		ug/L	1	1.10	10.0	50	EPA 6010C	04/23/10 12:30	JDH	
Nickel [7440-02-0] ^	**2.26**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 12:30	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/10 10:44	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:30	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/10 10:44	VLO	
Vanadium [7440-62-2] ^	**1.74**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 12:30	JDH	
Zinc [7440-66-6] ^	**6.66**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 12:30	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 0D30015 - EPA 5030B_MS

Blank (0D30015-BLK1) Prepared: 04/30/2010 10:43 Analyzed: 05/01/2010 04:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0D30015 - EPA 5030B_MS

Blank (0D30015-BLK1) Continued Prepared: 04/30/2010 10:43 Analyzed: 05/01/2010 04:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*86*	*69-110*			

LCS (0D30015-BS1) Prepared: 04/30/2010 10:43 Analyzed: 05/01/2010 05:02

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		105	75-133			
Benzene	19		1.0	ug/L	20.0		95	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	20		1.0	ug/L	20.0		102	71-118			
Trichloroethene	20		1.0	ug/L	20.0		99	75-115			

Matrix Spike (0D30015-MS1) Prepared: 04/30/2010 10:43 Analyzed: 05/01/2010 05:31

Source: C004891-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	101	75-133			
Benzene	19		1.0	ug/L	20.0	0.050 U	96	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	98	83-117			
Toluene	21		1.0	ug/L	20.0	0.053 U	104	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	98	75-115			

Matrix Spike Dup (0D30015-MSD1) Prepared: 04/30/2010 10:43 Analyzed: 05/01/2010 06:00

Source: C004891-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	100	75-133	0.4	20	
Benzene	20		1.0	ug/L	20.0	0.050 U	98	81-134	2	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	100	83-117	2	16	
Toluene	21		1.0	ug/L	20.0	0.053 U	103	71-118	0.4	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	102	75-115	3	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0D22017 - EPA 245.1

Blank (0D22017-BLK1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0540	U	0.200	ug/L							

LCS (0D22017-BS1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.29		0.200	ug/L	5.00		106	85-115			

Matrix Spike (0D22017-MS1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:54

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0D22017 - EPA 245.1

Matrix Spike (0D22017-MS1) Continued Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:54

Source: C002355-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.76		0.200	ug/L	5.00	0.0540 U	95	85-115			

Matrix Spike Dup (0D22017-MSD1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:57

Source: C002355-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.01		0.200	ug/L	5.00	0.0540 U	100	85-115	5	15	

Post Spike (0D22017-PS1) Prepared: 04/22/2010 10:02 Analyzed: 04/22/2010 14:59

Source: C002355-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.12		0.200	ug/L	5.00	-0.0594	84	75-125			

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

Batch 0D22016 - EPA 3005A

Blank (0D22016-BLK1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:39

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 (0D22016-BS1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.5		2.00	ug/L	25.0		106	80-120			
Selenium	25.5		1.00	ug/L	25.0		102	80-120			
Thallium	25.7		1.00	ug/L	25.0		103	80-120			

Matrix Spike (0D22016-MS1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:49

Source: C004685-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.3		2.00	ug/L	25.0	0.220 U	97	75-125			
Selenium	24.2		1.00	ug/L	25.0	0.830 U	97	75-125			
Thallium	24.7		1.00	ug/L	25.0	0.110 U	99	75-125			

Matrix Spike Dup (0D22016-MSD1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:53

Source: C004685-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.2		2.00	ug/L	25.0	0.220 U	97	75-125	0.3	20	
Selenium	24.9		1.00	ug/L	25.0	0.830 U	100	75-125	3	20	

QUALITY CONTROL

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

Batch 0D22016 - EPA 3005A

Matrix Spike Dup (0D22016-MSD1) Continued Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:53

Source: C004685-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thallium	25.2		1.00	ug/L	25.0	0.110 U	101	75-125	2	20	

Post Spike (0D22016-PS1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:57

Source: C004685-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.1		2.00	ug/L	25.0	0.0640	96	80-120			
Selenium	25.3		1.00	ug/L	25.0	-0.253	102	80-120			
Thallium	25.0		1.00	ug/L	25.0	-0.00400	100	80-120			

Batch 0D22018 - EPA 3005A

Blank (0D22018-BLK1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:24

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							
Iron	22.0	U	50.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Manganese	1.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0D22018-BS1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	975		10.0	ug/L	1000		98	80-120			
Barium	970		10.0	ug/L	1000		97	80-120			
Beryllium	501		1.00	ug/L	500		100	80-120			
Cadmium	480		1.00	ug/L	500		96	80-120			
Chromium	982		10.0	ug/L	1000		98	80-120			
Cobalt	943		10.0	ug/L	1000		94	80-120			
Copper	493		10.0	ug/L	500		99	80-120			
Iron	9600		50.0	ug/L	10000		96	80-120			
Lead	978		10.0	ug/L	1000		98	80-120			
Manganese	483		10.0	ug/L	500		97	80-120			
Nickel	968		10.0	ug/L	1000		97	80-120			
Silver	96.1		10.0	ug/L	100		96	80-120			
Vanadium	483		10.0	ug/L	500		97	80-120			
Zinc	984		10.0	ug/L	1000		98	80-120			

QUALITY CONTROL

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

Batch 0D22018 - EPA 3005A

Matrix Spike (0D22018-MS1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:31

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	953		10.0	ug/L	1000	32.7	92	75-125			
Barium	1420		10.0	ug/L	1000	438	98	75-125			
Beryllium	491		1.00	ug/L	500	0.100 U	98	75-125			
Cadmium	453		1.00	ug/L	500	0.360 U	91	75-125			
Chromium	1000		10.0	ug/L	1000	51.1	95	75-125			
Cobalt	945		10.0	ug/L	1000	35.7	91	75-125			
Copper	525		10.0	ug/L	500	10.1	103	75-125			
Iron	74900		50.0	ug/L	10000	63300	116	75-125			
Lead	897		10.0	ug/L	1000	12.0	89	75-125			
Manganese	6280		10.0	ug/L	500	5650	124	75-125			
Nickel	965		10.0	ug/L	1000	47.5	92	75-125			
Silver	101		10.0	ug/L	100	6.14	95	75-125			
Vanadium	516		10.0	ug/L	500	40.0	95	75-125			
Zinc	1190		10.0	ug/L	1000	234	95	75-125			

Matrix Spike Dup (0D22018-MSD1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:34

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	925		10.0	ug/L	1000	32.7	89	75-125	3	20	
Barium	1360		10.0	ug/L	1000	438	93	75-125	4	20	
Beryllium	474		1.00	ug/L	500	0.100 U	95	75-125	3	20	
Cadmium	438		1.00	ug/L	500	0.360 U	88	75-125	3	20	
Chromium	968		10.0	ug/L	1000	51.1	92	75-125	3	20	
Cobalt	913		10.0	ug/L	1000	35.7	88	75-125	3	20	
Copper	506		10.0	ug/L	500	10.1	99	75-125	4	20	
Iron	72600		50.0	ug/L	10000	63300	92	75-125	3	20	
Lead	872		10.0	ug/L	1000	12.0	86	75-125	3	20	
Manganese	6070		10.0	ug/L	500	5650	84	75-125	3	20	
Nickel	932		10.0	ug/L	1000	47.5	88	75-125	3	20	
Silver	97.3		10.0	ug/L	100	6.14	91	75-125	4	20	
Vanadium	499		10.0	ug/L	500	40.0	92	75-125	3	20	
Zinc	1150		10.0	ug/L	1000	234	91	75-125	3	20	

Post Spike (0D22018-PS1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:44

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.959		0.0100	mg/L	1.00	0.0327	93	80-120			
Barium	1.41		0.0100	mg/L	1.00	0.438	97	80-120			
Beryllium	0.491		0.00100	mg/L	0.500	-0.000549	98	80-120			
Cadmium	0.457		0.00100	mg/L	0.500	-0.000247	91	80-120			
Chromium	1.01		0.0100	mg/L	1.00	0.0511	95	80-120			
Cobalt	0.955		0.0100	mg/L	1.00	0.0357	92	80-120			
Copper	0.525		0.0100	mg/L	0.500	0.0101	103	80-120			

QUALITY CONTROL

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

Batch 0D22018 - EPA 3005A

Post Spike (0D22018-PS1) Continued Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:44

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron	72.1		0.0500	mg/L	10.0	63.3	87	80-120			
Lead	0.898		0.0100	mg/L	1.00	0.0120	89	80-120			
Manganese	6.08		0.0100	mg/L	0.500	5.65	86	80-120			
Nickel	0.965		0.0100	mg/L	1.00	0.0475	92	80-120			
Silver	0.104		0.0100	mg/L	0.100	0.00614	98	80-120			
Vanadium	0.518		0.0100	mg/L	0.500	0.0400	96	80-120			
Zinc	1.19		0.0100	mg/L	1.00	0.234	95	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.

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Page 1 of 1

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-07-004
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Lincoln County LF - Surface Waters
City/ST/Zip: Charlotte, NC 28273	PO # / Billing info: ~~32341~~ 51689
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Courtney Withers	Billing Contact: Barbara Ellington
Sampler(s) Signature: Courtney Withers	Facility # (if required): 55-03

Requested Analyses: 8260B Appendix 1; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Tl,V,Zn; Hg

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C002355

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,Fe,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Hg								Sample Comments
	5503-SW1	4/21/10	1130	Grab	SW	4	X	X	X								
	5503-SW2		1430		SW	4	X	X	X								
	5503-SW3		1445		SW	4	X	X	X								
	5503-SW4		1405		SW	4	X	X	X								
	5503-SW5		1400		SW	4	X	X	X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
BJG	3/9/10	Courtney Withers	4/21/10 1700	Bianca Gregory	4/22/10 08:00
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-715 2.0°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil 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

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

Tuesday, May 4, 2010

S&ME, Inc. (SM002)

Attn: Courtney Withers

9751 Southern Pine Blvd.

Charlotte, NC 28273

RE: Laboratory Results for
Project Number: 1356-07-004, Project Name/Desc: Lincoln County LF - Leachate
ENCO Workorder: C002354

Dear Courtney Withers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, April 22, 2010.

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 27.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 5503-Lift Station | **Lab ID: C002354-01** | **Sampled: 04/21/10 09:20** | **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/19/10	04/26/10 07:39	4/26/2010 23:24
EPA 353.2	04/23/10 09:20	04/22/10 11:53	4/22/2010 13:50
EPA 353.2	05/19/10	04/27/10 06:30	4/27/2010 10:38
EPA 353.2	05/19/10	04/28/10 10:54	4/28/2010 10:54
EPA 6010C	10/18/10	04/22/10 10:06	4/23/2010 11:29
EPA 6020A	10/18/10	04/22/10 09:54	4/30/2010 10:22
SM 2540D	04/28/10	04/27/10 10:15	4/27/2010 10:15
SM 5210B	04/23/10 09:20	04/23/10 08:38	4/23/2010 08:38

Client ID: 5503-Lift Station | **Lab ID: C002354-01RE1** | **Sampled: 04/21/10 09:20** | **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 310.2	05/05/10	04/23/10 07:15	4/23/2010 08:37
EPA 365.4	05/19/10	04/29/10 12:07	4/30/2010 13:36
EPA 8260B	05/05/10	05/01/10 07:53	5/1/2010 21:42
SM 5220D	05/19/10	04/28/10 13:10	4/28/2010 14:45

Client ID: 5503-Trip Blank | **Lab ID: C002354-02** | **Sampled: 04/21/10 09:20** | **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	05/05/10	04/30/10 10:38	4/30/2010 18:14

Client ID: 5503-SW 6 | **Lab ID: C002354-03** | **Sampled: 04/21/10 09:35** | **Received: 04/22/10 08:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/19/10	04/26/10 07:39	4/26/2010 23:44
EPA 310.2	05/05/10	04/23/10 07:15	4/23/2010 08:16
EPA 353.2	04/23/10 09:35	04/22/10 11:53	4/22/2010 13:53
EPA 353.2	05/19/10	04/27/10 06:30	4/27/2010 10:41
EPA 353.2	05/19/10	04/28/10 10:54	4/28/2010 10:54
EPA 365.4	05/19/10	04/29/10 12:07	4/30/2010 12:40
EPA 6010C	10/18/10	04/22/10 10:06	4/23/2010 12:18
EPA 6020A	10/18/10	04/22/10 09:54	4/30/2010 10:26
EPA 8260B	05/05/10	04/30/10 10:43	5/1/2010 06:59
SM 2540D	04/28/10	04/27/10 10:15	4/27/2010 10:15
SM 5210B	04/23/10 09:35	04/23/10 08:38	4/23/2010 08:38
SM 5220D	05/19/10	04/28/10 11:34	4/28/2010 14:45

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 5503-Lift Station **Lab ID: C002354-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	1.98	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	32.7		1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	438		1	1.00	10.0	100	ug/L	EPA 6010C	
Biochemical Oxygen Demand	1200		1	2.0	2.0	NE	mg/L	SM 5210B	
Chromium - Total	51.1		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	35.7		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	10.1		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	12.0		1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	47.5	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	0.096	J	1	0.021	0.10	10000	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.15		1	0.021	0.10	NE	mg/L	EPA 353.2	
Nitrite as N	0.054	J	1	0.0056	0.10	1000	mg/L	EPA 353.2	
Selenium - Total	16.9		1	0.830	1.00	10	ug/L	EPA 6020A	
Silver - Total	6.14	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	21	J	1	0.12	5.0	250000	mg/L	EPA 300.0	
Total Suspended Solids	3800		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	40.0		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	234		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-Lift Station **Lab ID: C002354-01RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,2-Dichloroethane	6.1	JD	10	0.82	10	1	ug/L	EPA 8260B	
2-Butanone	2900	D	10	10	50	100	ug/L	EPA 8260B	
2-Hexanone	21	JD	10	6.9	50	50	ug/L	EPA 8260B	
4-Methyl-2-pentanone	32	JD	10	11	50	100	ug/L	EPA 8260B	
Acetone	1000	D	10	15	50	100	ug/L	EPA 8260B	
Chemical Oxygen Demand	2000		1	28	100	NE	mg/L	SM 5220D	
Phosphorus	4.5	D	5	0.12	0.50	NE	mg/L	EPA 365.4	
Toluene	110	D	10	0.53	10	1	ug/L	EPA 8260B	
Total Alkalinity	930	D	5	40	75	NE	mg/L	EPA 310.2	
Xylenes (Total)	5.1	JD	10	2.2	10	5	ug/L	EPA 8260B	

Client ID: 5503-SW 6 **Lab ID: C002354-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	7.4	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Antimony - Total	2.60	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	46.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Biochemical Oxygen Demand	6.3		1	2.0	2.0	NE	mg/L	SM 5210B	
Chemical Oxygen Demand	57		1	2.8	10	NE	mg/L	SM 5220D	
Cobalt - Total	4.77	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	5.28	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.17	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nitrate as N	0.034	J	1	0.021	0.10	10000	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.042	J	1	0.021	0.10	NE	mg/L	EPA 353.2	
Nitrite as N	0.0079	J	1	0.0056	0.10	1000	mg/L	EPA 353.2	
Phosphorus	0.16		1	0.025	0.10	NE	mg/L	EPA 365.4	
Sulfate as SO4	1.8	J	1	0.12	5.0	250000	mg/L	EPA 300.0	
Toluene	1.1		1	0.053	1.0	1	ug/L	EPA 8260B	
Total Alkalinity	31		1	8.0	15	NE	mg/L	EPA 310.2	

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Client ID: 5503-SW 6									Lab ID: C002354-03
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Total Suspended Solids	22		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	1.50	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	14.5		1	3.80	10.0	10	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 5503-Lift Station
Matrix: Ground Water
Project: Lincoln County LF - Leachate

Lab Sample ID: C002354-01
Sampled: 04/21/10 09:20
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002354

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] ^	0.91	UD	ug/L	10	0.91	10	5	EPA 8260B	05/01/10 21:42	JKG	
1,1,1-Trichloroethane [71-55-6] ^	1.5	UD	ug/L	10	1.5	10	1	EPA 8260B	05/01/10 21:42	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.85	UD	ug/L	10	0.85	10	3	EPA 8260B	05/01/10 21:42	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.68	UD	ug/L	10	0.68	10	1	EPA 8260B	05/01/10 21:42	JKG	
1,1-Dichloroethane [75-34-3] ^	0.50	UD	ug/L	10	0.50	10	5	EPA 8260B	05/01/10 21:42	JKG	
1,1-Dichloroethene [75-35-4] ^	1.5	UD	ug/L	10	1.5	10	5	EPA 8260B	05/01/10 21:42	JKG	
1,2,3-Trichloropropane [96-18-4] ^	1.5	UD	ug/L	10	1.5	10	1	EPA 8260B	05/01/10 21:42	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	4.8	UD	ug/L	10	4.8	10	13	EPA 8260B	05/01/10 21:42	JKG	
1,2-Dibromoethane [106-93-4] ^	4.2	UD	ug/L	10	4.2	10	1	EPA 8260B	05/01/10 21:42	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.52	UD	ug/L	10	0.52	10	5	EPA 8260B	05/01/10 21:42	JKG	
1,2-Dichloroethane [107-06-2] ^	**6.1**	JD	ug/L	10	0.82	10	1	EPA 8260B	05/01/10 21:42	JKG	
1,2-Dichloropropane [78-87-5] ^	0.98	UD	ug/L	10	0.98	10	1	EPA 8260B	05/01/10 21:42	JKG	
1,4-Dichlorobenzene [106-46-7] ^	1.0	UD	ug/L	10	1.0	10	1	EPA 8260B	05/01/10 21:42	JKG	
2-Butanone [78-93-3] ^	**2900**	D	ug/L	10	10	50	100	EPA 8260B	05/01/10 21:42	JKG	
2-Hexanone [591-78-6] ^	**21**	JD	ug/L	10	6.9	50	50	EPA 8260B	05/01/10 21:42	JKG	
4-Methyl-2-pentanone [108-10-1] ^	**32**	JD	ug/L	10	11	50	100	EPA 8260B	05/01/10 21:42	JKG	
Acetone [67-64-1] ^	**1000**	D	ug/L	10	15	50	100	EPA 8260B	05/01/10 21:42	JKG	
Acrylonitrile [107-13-1] ^	21	UD	ug/L	10	21	100	200	EPA 8260B	05/01/10 21:42	JKG	
Benzene [71-43-2] ^	0.50	UD	ug/L	10	0.50	10	1	EPA 8260B	05/01/10 21:42	JKG	
Bromochloromethane [74-97-5] ^	1.1	UD	ug/L	10	1.1	10	3	EPA 8260B	05/01/10 21:42	JKG	
Bromodichloromethane [75-27-4] ^	1.0	UD	ug/L	10	1.0	10	1	EPA 8260B	05/01/10 21:42	JKG	
Bromoform [75-25-2] ^	2.0	UD	ug/L	10	2.0	10	3	EPA 8260B	05/01/10 21:42	JKG	
Bromomethane [74-83-9] ^	2.8	UD	ug/L	10	2.8	10	10	EPA 8260B	05/01/10 21:42	JKG	
Carbon disulfide [75-15-0] ^	5.4	UD	ug/L	10	5.4	50	100	EPA 8260B	05/01/10 21:42	JKG	
Carbon tetrachloride [56-23-5] ^	0.82	UD	ug/L	10	0.82	10	1	EPA 8260B	05/01/10 21:42	JKG	
Chlorobenzene [108-90-7] ^	0.69	UD	ug/L	10	0.69	10	3	EPA 8260B	05/01/10 21:42	JKG	
Chloroethane [75-00-3] ^	1.8	UD	ug/L	10	1.8	10	10	EPA 8260B	05/01/10 21:42	JKG	
Chloroform [67-66-3] ^	0.83	UD	ug/L	10	0.83	10	5	EPA 8260B	05/01/10 21:42	JKG	
Chloromethane [74-87-3] ^	0.50	UD	ug/L	10	0.50	10	1	EPA 8260B	05/01/10 21:42	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.75	UD	ug/L	10	0.75	10	5	EPA 8260B	05/01/10 21:42	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.73	UD	ug/L	10	0.73	10	1	EPA 8260B	05/01/10 21:42	JKG	
Dibromochloromethane [124-48-1] ^	0.67	UD	ug/L	10	0.67	10	3	EPA 8260B	05/01/10 21:42	JKG	
Dibromomethane [74-95-3] ^	1.3	UD	ug/L	10	1.3	10	10	EPA 8260B	05/01/10 21:42	JKG	
Ethylbenzene [100-41-4] ^	1.0	UD	ug/L	10	1.0	10	1	EPA 8260B	05/01/10 21:42	JKG	
Iodomethane [74-88-4] ^	5.2	UD	ug/L	10	5.2	50	10	EPA 8260B	05/01/10 21:42	JKG	
Methylene chloride [75-09-2] ^	0.70	UD	ug/L	10	0.70	10	1	EPA 8260B	05/01/10 21:42	JKG	
Styrene [100-42-5] ^	0.82	UD	ug/L	10	0.82	10	1	EPA 8260B	05/01/10 21:42	JKG	
Tetrachloroethene [127-18-4] ^	0.99	UD	ug/L	10	0.99	10	1	EPA 8260B	05/01/10 21:42	JKG	
Toluene [108-88-3] ^	**110**	D	ug/L	10	0.53	10	1	EPA 8260B	05/01/10 21:42	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	1.1	UD	ug/L	10	1.1	10	5	EPA 8260B	05/01/10 21:42	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.80	UD	ug/L	10	0.80	10	1	EPA 8260B	05/01/10 21:42	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	5.4	UD	ug/L	10	5.4	10	100	EPA 8260B	05/01/10 21:42	JKG	
Trichloroethene [79-01-6] ^	1.3	UD	ug/L	10	1.3	10	1	EPA 8260B	05/01/10 21:42	JKG	

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Description: 5503-Lift Station
Matrix: Ground Water
Project: Lincoln County LF - Leachate

Lab Sample ID: C002354-01
Sampled: 04/21/10 09:20
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002354

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] ^	1.5	UD	ug/L	10	1.5	10	1	EPA 8260B	05/01/10 21:42	JKG	
Vinyl acetate [108-05-4] ^	9.8	UD	ug/L	10	9.8	50	50	EPA 8260B	05/01/10 21:42	JKG	
Vinyl chloride [75-01-4] ^	0.83	UD	ug/L	10	0.83	10	1	EPA 8260B	05/01/10 21:42	JKG	
Xylenes (Total) [1330-20-7] ^	**5.1**	JD	ug/L	10	2.2	10	5	EPA 8260B	05/01/10 21:42	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*0E01001*	*EPA 8260B*	*05/01/10 21:42*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*68-117*	*0E01001*	*EPA 8260B*	*05/01/10 21:42*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*87 %*	*69-110*	*0E01001*	*EPA 8260B*	*05/01/10 21:42*	*JKG*	

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] ^	**1.98**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/10 10:22	VLO	
Arsenic [7440-38-2] ^	**32.7**		ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 11:29	JDH	
Barium [7440-39-3] ^	**438**		ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 11:29	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 11:29	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 11:29	JDH	
Chromium [7440-47-3] ^	**51.1**		ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 11:29	JDH	
Cobalt [7440-48-4] ^	**35.7**		ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 11:29	JDH	
Copper [7440-50-8] ^	**10.1**		ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 11:29	JDH	
Lead [7439-92-1] ^	**12.0**		ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 11:29	JDH	
Nickel [7440-02-0] ^	**47.5**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 11:29	JDH	
Selenium [7782-49-2] ^	**16.9**		ug/L	1	0.830	1.00	10	EPA 6020A	04/30/10 10:22	VLO	
Silver [7440-22-4] ^	**6.14**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 11:29	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/10 10:22	VLO	
Vanadium [7440-62-2] ^	**40.0**		ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 11:29	JDH	
Zinc [7440-66-6] ^	**234**		ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 11:29	JDH	

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Description: 5503-Lift Station
Matrix: Ground Water
Project: Lincoln County LF - Leachate

Lab Sample ID: C002354-01
Sampled: 04/21/10 09:20
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002354

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] ^	**1200**		mg/L	1	2.0	2.0	NE	SM 5210B	04/23/10 08:38	AJB	
Chemical Oxygen Demand [ECL-0035] ^	**2000**		mg/L	1	28	100	NE	SM 5220D	04/28/10 14:45	JOC	
Nitrate as N [14797-55-8] ^	**0.096**	J	mg/L	1	0.021	0.10	10000	EPA 353.2	04/28/10 10:54	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.15**		mg/L	1	0.021	0.10	NE	EPA 353.2	04/27/10 10:38	PEV	
Nitrite as N [14797-65-0] ^	**0.054**	J	mg/L	1	0.0056	0.10	1000	EPA 353.2	04/22/10 13:50	PEV	
Phosphorus [7723-14-0] ^	**4.5**	D	mg/L	5	0.12	0.50	NE	EPA 365.4	04/30/10 13:36	PEV	
Sulfate as SO4 [14808-79-8] ^	**21**	J	mg/L	1	0.12	5.0	250000	EPA 300.0	04/26/10 23:24	PEV	
Total Alkalinity [471-34-1] ^	**930**	D	mg/L	5	40	75	NE	EPA 310.2	04/23/10 08:37	PEV	
Total Suspended Solids [ECL-0169] ^	**3800**		mg/L	1	1.0	1.0	NE	SM 2540D	04/27/10 10:15	FLT	

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

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Description: 5503-Trip Blank | **Lab Sample ID:** C002354-02 | **Received:** 04/22/10 08:00

Matrix: Water | **Sampled:** 04/21/10 09:20 | **Work Order:** C002354

Project: Lincoln County LF - Leachate | **Sampled By:** ENCO

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	04/30/10 18:14	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	04/30/10 18:14	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	04/30/10 18:14	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/30/10 18:14	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/10 18:14	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	04/30/10 18:14	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/10 18:14	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/10 18:14	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/10 18:14	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/10 18:14	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	04/30/10 18:14	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	04/30/10 18:14	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	04/30/10 18:14	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	04/30/10 18:14	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/10 18:14	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	04/30/10 18:14	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	04/30/10 18:14	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	04/30/10 18:14	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	04/30/10 18:14	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	04/30/10 18:14	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	04/30/10 18:14	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	04/30/10 18:14	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	04/30/10 18:14	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/10 18:14	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/30/10 18:14	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	04/30/10 18:14	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	04/30/10 18:14	JKG	

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Description: 5503-Trip Blank
Matrix: Water
Project: Lincoln County LF - Leachate

Lab Sample ID: C002354-02
Sampled: 04/21/10 09:20
Sampled By: ENCO

Received: 04/22/10 08:00
Work Order: C002354

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	04/30/10 18:14	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*0D30014*	*EPA 8260B*	*04/30/10 18:14*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*0D30014*	*EPA 8260B*	*04/30/10 18:14*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*87 %*	*69-110*	*0D30014*	*EPA 8260B*	*04/30/10 18:14*	*JKG*	

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

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Description: 5503-SW 6 | **Lab Sample ID:** C002354-03 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 09:35 | **Work Order:** C002354

Project: Lincoln County LF - Leachate | **Sampled By:** Courtney Withers

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/01/10 06:59	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/01/10 06:59	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/01/10 06:59	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/01/10 06:59	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/01/10 06:59	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/01/10 06:59	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/01/10 06:59	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/01/10 06:59	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/01/10 06:59	JKG	
Acetone [67-64-1] ^	**7.4**	J	ug/L	1	1.5	5.0	100	EPA 8260B	05/01/10 06:59	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/01/10 06:59	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/01/10 06:59	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/01/10 06:59	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/01/10 06:59	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/01/10 06:59	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/01/10 06:59	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/01/10 06:59	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/01/10 06:59	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/01/10 06:59	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/01/10 06:59	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/01/10 06:59	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/01/10 06:59	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
Toluene [108-88-3] ^	**1.1**		ug/L	1	0.053	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/01/10 06:59	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/01/10 06:59	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/01/10 06:59	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/01/10 06:59	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/01/10 06:59	JKG	

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Description: 5503-SW 6
Matrix: Ground Water
Project: Lincoln County LF - Leachate

Lab Sample ID: C002354-03
Sampled: 04/21/10 09:35
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002354

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/01/10 06:59	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*85 %*	*51-122*	*0D30015*	*EPA 8260B*	*05/01/10 06:59*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*85 %*	*68-117*	*0D30015*	*EPA 8260B*	*05/01/10 06:59*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*69-110*	*0D30015*	*EPA 8260B*	*05/01/10 06:59*	*JKG*	

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Description: 5503-SW 6 | **Lab Sample ID:** C002354-03 | **Received:** 04/22/10 08:00

Matrix: Ground Water | **Sampled:** 04/21/10 09:35 | **Work Order:** C002354

Project: Lincoln County LF - Leachate | **Sampled By:** Courtney Withers

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] ^	**2.60**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/10 10:26	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/23/10 12:18	JDH	
Barium [7440-39-3] ^	**46.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/23/10 12:18	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/23/10 12:18	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/23/10 12:18	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/23/10 12:18	JDH	
Cobalt [7440-48-4] ^	**4.77**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/23/10 12:18	JDH	
Copper [7440-50-8] ^	**5.28**	J	ug/L	1	1.60	10.0	10	EPA 6010C	04/23/10 12:18	JDH	
Lead [7439-92-1] ^	**2.17**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:18	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/23/10 12:18	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/10 10:26	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/23/10 12:18	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/10 10:26	VLO	
Vanadium [7440-62-2] ^	**1.50**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/23/10 12:18	JDH	
Zinc [7440-66-6] ^	**14.5**		ug/L	1	3.80	10.0	10	EPA 6010C	04/23/10 12:18	JDH	

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Description: 5503-SW 6
Matrix: Ground Water
Project: Lincoln County LF - Leachate

Lab Sample ID: C002354-03
Sampled: 04/21/10 09:35
Sampled By: Courtney Withers

Received: 04/22/10 08:00
Work Order: C002354

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] ^	**6.3**		mg/L	1	2.0	2.0	NE	SM 5210B	04/23/10 08:38	AJB	
Chemical Oxygen Demand [ECL-0035] ^	**57**		mg/L	1	2.8	10	NE	SM 5220D	04/28/10 14:45	JOC	
Nitrate as N [14797-55-8] ^	**0.034**	J	mg/L	1	0.021	0.10	10000	EPA 353.2	04/28/10 10:54	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.042**	J	mg/L	1	0.021	0.10	NE	EPA 353.2	04/27/10 10:41	PEV	
Nitrite as N [14797-65-0] ^	**0.0079**	J	mg/L	1	0.0056	0.10	1000	EPA 353.2	04/22/10 13:53	PEV	
Phosphorus [7723-14-0] ^	**0.16**		mg/L	1	0.025	0.10	NE	EPA 365.4	04/30/10 12:40	PEV	
Sulfate as SO4 [14808-79-8] ^	**1.8**	J	mg/L	1	0.12	5.0	250000	EPA 300.0	04/26/10 23:44	PEV	
Total Alkalinity [471-34-1] ^	**31**		mg/L	1	8.0	15	NE	EPA 310.2	04/23/10 08:16	PEV	
Total Suspended Solids [ECL-0169] ^	**22**		mg/L	1	1.0	1.0	NE	SM 2540D	04/27/10 10:15	FLT	

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 0D30014 - EPA 5030B_MS

Blank (0D30014-BLK1) Prepared: 04/30/2010 10:38 Analyzed: 04/30/2010 14:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*91*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0D30014 - EPA 5030B_MS

Blank (0D30014-BLK1) Continued Prepared: 04/30/2010 10:38 Analyzed: 04/30/2010 14:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*86*	*69-110*			

LCS (0D30014-BS1) Prepared: 04/30/2010 10:38 Analyzed: 04/30/2010 15:16

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		106	75-133			
Benzene	19		1.0	ug/L	20.0		96	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	20		1.0	ug/L	20.0		102	71-118			
Trichloroethene	20		1.0	ug/L	20.0		101	75-115			

Matrix Spike (0D30014-MS1) Prepared: 04/30/2010 10:38 Analyzed: 04/30/2010 15:45

Source: C004891-10

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	0.15 U	106	75-133			
Benzene	19		1.0	ug/L	20.0	0.050 U	95	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	98	83-117			
Toluene	20		1.0	ug/L	20.0	0.053 U	102	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	100	75-115			

Matrix Spike Dup (0D30014-MSD1) Prepared: 04/30/2010 10:38 Analyzed: 04/30/2010 16:15

Source: C004891-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	101	75-133	5	20	
Benzene	19		1.0	ug/L	20.0	0.050 U	94	81-134	0.8	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	99	83-117	0.8	16	
Toluene	20		1.0	ug/L	20.0	0.053 U	101	71-118	0.8	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	101	75-115	0.4	18	

Batch 0D30015 - EPA 5030B_MS

Blank (0D30015-BLK1) Prepared: 04/30/2010 10:43 Analyzed: 05/01/2010 04:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0D30015 - EPA 5030B_MS

Blank (0D30015-BLK1) Continued Prepared: 04/30/2010 10:43 Analyzed: 05/01/2010 04:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*86*	*69-110*			

LCS (0D30015-BS1) Prepared: 04/30/2010 10:43 Analyzed: 05/01/2010 05:02

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		105	75-133			
Benzene	19		1.0	ug/L	20.0		95	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	20		1.0	ug/L	20.0		102	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0D30015 - EPA 5030B_MS

LCS (0D30015-BS1) Continued Prepared: 04/30/2010 10:43 Analyzed: 05/01/2010 05:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	20		1.0	ug/L	20.0		99	75-115			

Matrix Spike (0D30015-MS1) Prepared: 04/30/2010 10:43 Analyzed: 05/01/2010 05:31

Source: C004891-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	101	75-133			
Benzene	19		1.0	ug/L	20.0	0.050 U	96	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	98	83-117			
Toluene	21		1.0	ug/L	20.0	0.053 U	104	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	98	75-115			

Matrix Spike Dup (0D30015-MSD1) Prepared: 04/30/2010 10:43 Analyzed: 05/01/2010 06:00

Source: C004891-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	100	75-133	0.4	20	
Benzene	20		1.0	ug/L	20.0	0.050 U	98	81-134	2	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	100	83-117	2	16	
Toluene	21		1.0	ug/L	20.0	0.053 U	103	71-118	0.4	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	102	75-115	3	18	

Batch 0E01001 - EPA 5030B_MS

Blank (0E01001-BLK1) Prepared: 05/01/2010 07:53 Analyzed: 05/01/2010 19:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E01001 - EPA 5030B_MS

Blank (0E01001-BLK1) Continued Prepared: 05/01/2010 07:53 Analyzed: 05/01/2010 19:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*86*	*69-110*			

LCS (0E01001-BS1) Prepared: 05/01/2010 07:53 Analyzed: 05/01/2010 19:44

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		114	75-133			
Benzene	19		1.0	ug/L	20.0		96	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	21		1.0	ug/L	20.0		105	71-118			
Trichloroethene	21		1.0	ug/L	20.0		103	75-115			

Matrix Spike (0E01001-MS1) Prepared: 05/01/2010 07:53 Analyzed: 05/01/2010 20:14

Source: C005033-07

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	0.15 U	109	75-133			
Benzene	20		1.0	ug/L	20.0	0.050 U	98	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	100	83-117			
Toluene	20		1.0	ug/L	20.0	0.053 U	100	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	100	75-115			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E01001 - EPA 5030B_MS

Matrix Spike Dup (0E01001-MSD1) Prepared: 05/01/2010 07:53 Analyzed: 05/01/2010 20:43

Source: C005033-07

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	0.15 U	107	75-133	2	20	
Benzene	19		1.0	ug/L	20.0	0.050 U	95	81-134	2	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.069 U	96	83-117	4	16	
Toluene	20		1.0	ug/L	20.0	0.053 U	101	71-118	0.6	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	101	75-115	1	18	

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

Batch 0D22016 - EPA 3005A

Blank (0D22016-BLK1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:39

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 (0D22016-BS1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.5		2.00	ug/L	25.0		106	80-120			
Selenium	25.5		1.00	ug/L	25.0		102	80-120			
Thallium	25.7		1.00	ug/L	25.0		103	80-120			

Matrix Spike (0D22016-MS1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:49

Source: C004685-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.3		2.00	ug/L	25.0	0.220 U	97	75-125			
Selenium	24.2		1.00	ug/L	25.0	0.830 U	97	75-125			
Thallium	24.7		1.00	ug/L	25.0	0.110 U	99	75-125			

Matrix Spike Dup (0D22016-MSD1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:53

Source: C004685-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.2		2.00	ug/L	25.0	0.220 U	97	75-125	0.3	20	
Selenium	24.9		1.00	ug/L	25.0	0.830 U	100	75-125	3	20	
Thallium	25.2		1.00	ug/L	25.0	0.110 U	101	75-125	2	20	

Post Spike (0D22016-PS1) Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:57

Source: C004685-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.1		2.00	ug/L	25.0	0.0640	96	80-120			

QUALITY CONTROL

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

Batch 0D22016 - EPA 3005A

Post Spike (0D22016-PS1) Continued Prepared: 04/22/2010 09:54 Analyzed: 04/30/2010 09:57

Source: C004685-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Selenium	25.3		1.00	ug/L	25.0	-0.253	102	80-120			
Thallium	25.0		1.00	ug/L	25.0	-0.00400	100	80-120			

Batch 0D22018 - EPA 3005A

Blank (0D22018-BLK1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:24

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							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0D22018-BS1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	975		10.0	ug/L	1000		98	80-120			
Barium	970		10.0	ug/L	1000		97	80-120			
Beryllium	501		1.00	ug/L	500		100	80-120			
Cadmium	480		1.00	ug/L	500		96	80-120			
Chromium	982		10.0	ug/L	1000		98	80-120			
Cobalt	943		10.0	ug/L	1000		94	80-120			
Copper	493		10.0	ug/L	500		99	80-120			
Lead	978		10.0	ug/L	1000		98	80-120			
Nickel	968		10.0	ug/L	1000		97	80-120			
Silver	96.1		10.0	ug/L	100		96	80-120			
Vanadium	483		10.0	ug/L	500		97	80-120			
Zinc	984		10.0	ug/L	1000		98	80-120			

Matrix Spike (0D22018-MS1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:31

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	953		10.0	ug/L	1000	32.7	92	75-125			
Barium	1420		10.0	ug/L	1000	438	98	75-125			
Beryllium	491		1.00	ug/L	500	0.100 U	98	75-125			
Cadmium	453		1.00	ug/L	500	0.360 U	91	75-125			
Chromium	1000		10.0	ug/L	1000	51.1	95	75-125			
Cobalt	945		10.0	ug/L	1000	35.7	91	75-125			

QUALITY CONTROL

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

Batch 0D22018 - EPA 3005A

Matrix Spike (0D22018-MS1) Continued Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:31

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	525		10.0	ug/L	500	10.1	103	75-125			
Lead	897		10.0	ug/L	1000	12.0	89	75-125			
Nickel	965		10.0	ug/L	1000	47.5	92	75-125			
Silver	101		10.0	ug/L	100	6.14	95	75-125			
Vanadium	516		10.0	ug/L	500	40.0	95	75-125			
Zinc	1190		10.0	ug/L	1000	234	95	75-125			

Matrix Spike Dup (0D22018-MSD1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:34

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	925		10.0	ug/L	1000	32.7	89	75-125	3	20	
Barium	1360		10.0	ug/L	1000	438	93	75-125	4	20	
Beryllium	474		1.00	ug/L	500	0.100 U	95	75-125	3	20	
Cadmium	438		1.00	ug/L	500	0.360 U	88	75-125	3	20	
Chromium	968		10.0	ug/L	1000	51.1	92	75-125	3	20	
Cobalt	913		10.0	ug/L	1000	35.7	88	75-125	3	20	
Copper	506		10.0	ug/L	500	10.1	99	75-125	4	20	
Lead	872		10.0	ug/L	1000	12.0	86	75-125	3	20	
Nickel	932		10.0	ug/L	1000	47.5	88	75-125	3	20	
Silver	97.3		10.0	ug/L	100	6.14	91	75-125	4	20	
Vanadium	499		10.0	ug/L	500	40.0	92	75-125	3	20	
Zinc	1150		10.0	ug/L	1000	234	91	75-125	3	20	

Post Spike (0D22018-PS1) Prepared: 04/22/2010 10:06 Analyzed: 04/23/2010 11:44

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.959		0.0100	mg/L	1.00	0.0327	93	80-120			
Barium	1.41		0.0100	mg/L	1.00	0.438	97	80-120			
Beryllium	0.491		0.00100	mg/L	0.500	-0.000549	98	80-120			
Cadmium	0.457		0.00100	mg/L	0.500	-0.000247	91	80-120			
Chromium	1.01		0.0100	mg/L	1.00	0.0511	95	80-120			
Cobalt	0.955		0.0100	mg/L	1.00	0.0357	92	80-120			
Copper	0.525		0.0100	mg/L	0.500	0.0101	103	80-120			
Lead	0.898		0.0100	mg/L	1.00	0.0120	89	80-120			
Nickel	0.965		0.0100	mg/L	1.00	0.0475	92	80-120			
Silver	0.104		0.0100	mg/L	0.100	0.00614	98	80-120			
Vanadium	0.518		0.0100	mg/L	0.500	0.0400	96	80-120			
Zinc	1.19		0.0100	mg/L	1.00	0.234	95	80-120			

Classical Chemistry Parameters - Quality Control

Batch 0D22024 - NO PREP

Blank (0D22024-BLK1) Prepared: 04/22/2010 11:53 Analyzed: 04/22/2010 13:33

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0D22024 - NO PREP

Blank (0D22024-BLK1) Continued Prepared: 04/22/2010 11:53 Analyzed: 04/22/2010 13:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.0056	U	0.10	mg/L							

LCS (0D22024-BS1) Prepared: 04/22/2010 11:53 Analyzed: 04/22/2010 13:34

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		96	80-120			

Matrix Spike (0D22024-MS1) Prepared: 04/22/2010 11:53 Analyzed: 04/22/2010 13:51

Source: C002354-01

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	0.054	97	80-120			

Matrix Spike Dup (0D22024-MSD1) Prepared: 04/22/2010 11:53 Analyzed: 04/22/2010 13:52

Source: C002354-01

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	0.054	95	80-120	2	25	

Batch 0D23003 - NO PREP

Blank (0D23003-BLK1) Prepared & Analyzed: 04/23/2010 08:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L							

LCS (0D23003-BS1) Prepared & Analyzed: 04/23/2010 08:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	200		2.0	mg/L	198		100	85-115			

Duplicate (0D23003-DUP1) Prepared & Analyzed: 04/23/2010 08:38

Source: C003791-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	140		2.0	mg/L		150			3		

Batch 0D23004 - NO PREP

Blank (0D23004-BLK1) Prepared: 04/23/2010 07:15 Analyzed: 04/23/2010 08:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	8.0	U	15	mg/L							

LCS (0D23004-BS1) Prepared: 04/23/2010 07:15 Analyzed: 04/23/2010 08:05

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0D23004 - NO PREP

LCS (0D23004-BS1) Continued Prepared: 04/23/2010 07:15 Analyzed: 04/23/2010 08:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100		101	80-120			

Matrix Spike (0D23004-MS1) Prepared: 04/23/2010 07:15 Analyzed: 04/23/2010 08:07

Source: C002353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	120		15	mg/L	100	20	101	80-120			

Matrix Spike Dup (0D23004-MSD1) Prepared: 04/23/2010 07:15 Analyzed: 04/23/2010 08:08

Source: C002353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	120		15	mg/L	100	20	99	80-120	2	25	

Batch 0D26005 - Same

Blank (0D26005-BLK1) Prepared: 04/29/2010 12:07 Analyzed: 04/30/2010 12:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.025	U	0.10	mg/L							

LCS (0D26005-BS1) Prepared: 04/29/2010 12:07 Analyzed: 04/30/2010 12:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		101	80-120			

Matrix Spike (0D26005-MS1) Prepared: 04/29/2010 12:07 Analyzed: 04/30/2010 12:13

Source: C004263-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.0		0.10	mg/L	1.60	0.42	98	80-120			

Matrix Spike Dup (0D26005-MSD1) Prepared: 04/29/2010 12:07 Analyzed: 04/30/2010 12:15

Source: C004263-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.0		0.10	mg/L	1.60	0.42	96	80-120	2	25	

Batch 0D26007 - NO PREP

Blank (0D26007-BLK1) Prepared: 04/26/2010 07:39 Analyzed: 04/26/2010 19:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.12	U	5.0	mg/L							

LCS (0D26007-BS1) Prepared: 04/26/2010 07:39 Analyzed: 04/26/2010 19:36

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0D26007 - NO PREP

LCS (0D26007-BS1) Continued Prepared: 04/26/2010 07:39 Analyzed: 04/26/2010 19:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	47		5.0	mg/L	50.0		94	90-110			

Matrix Spike (0D26007-MS1) Prepared: 04/26/2010 07:39 Analyzed: 04/26/2010 19:57

Source: C002353-01

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	3.2	94	80-120			

Matrix Spike Dup (0D26007-MSD1) Prepared: 04/26/2010 07:39 Analyzed: 04/26/2010 20:18

Source: C002353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	51		5.0	mg/L	50.0	3.2	96	80-120	1	15	

Batch 0D27001 - NO PREP

Blank (0D27001-BLK1) Prepared: 04/27/2010 06:30 Analyzed: 04/27/2010 10:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.021	U	0.10	mg/L							

LCS (0D27001-BS1) Prepared: 04/27/2010 06:30 Analyzed: 04/27/2010 10:30

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		107	80-120			

Matrix Spike (0D27001-MS1) Prepared: 04/27/2010 06:30 Analyzed: 04/27/2010 11:38

Source: C004699-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.5		0.10	mg/L	1.28	0.005	114	80-120			

Matrix Spike Dup (0D27001-MSD1) Prepared: 04/27/2010 06:30 Analyzed: 04/27/2010 11:40

Source: C004699-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.6		0.10	mg/L	1.28	0.005	123	80-120	7	25	QM-07

Batch 0D27011 - NO PREP

Blank (0D27011-BLK1) Prepared & Analyzed: 04/27/2010 10:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (0D27011-BS1) Prepared & Analyzed: 04/27/2010 10:15

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0D27011 - NO PREP

LCS (0D27011-BS1) Continued Prepared & Analyzed: 04/27/2010 10:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	91		1.0	mg/L	80.0		114	90-122			

Duplicate (0D27011-DUP1) Prepared & Analyzed: 04/27/2010 10:15

Source: C004739-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	32		1.0	mg/L		32			0		

Batch 0D28007 - NO PREP

Blank (0D28007-BLK1) Prepared: 04/28/2010 11:34 Analyzed: 04/28/2010 14:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	2.8	U	10	mg/L							

LCS (0D28007-BS1) Prepared: 04/28/2010 11:34 Analyzed: 04/28/2010 14:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	530		10	mg/L	500		106	90-110			

Matrix Spike (0D28007-MS1) Prepared: 04/28/2010 11:34 Analyzed: 04/28/2010 14:45

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	2900	E	20	mg/L	1000	2000	89	90-110			QM-02

Matrix Spike Dup (0D28007-MSD1) Prepared: 04/28/2010 11:34 Analyzed: 04/28/2010 14:45

Source: C002354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	2900	E	20	mg/L	1000	2000	88	90-110	0.4	10	QM-02

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-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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

Page 1 of 1

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-07-004
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Lincoln County LF - Leachate
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: ~~50341~~ 51689
Tel: (704) 523-4726 / Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Courtney Withers	Billing Contact: Barbara Ellington
Sampler(s) Signature: Courtney Withers	Facility # (if required): 55-03

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C002354

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 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Nitrate Calc 353.2	NOX 353.2,P	Sulfate 300	TSS SM2540D		Sample Comments
	5503-Lift Station	4/21/10	0920	Grab	GW	8	X	X	X	X	X	X	X	X	X		
	5503-Trip Blank				WA	2	X										
	5503-SW 6	4/21/10	0935	GRAB	GW	8	X	X	X	X	X	X	X	X	X		

<-- Total # of Containers

Sample Kit Prepared By: JK	Date/Time: 3/25	Relinquished By: Courtney R. Withers	Date/Time: 4/21/10 1700	Received By: Briana Gregory	Date/Time: 4/22/10 08:00
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: JB-21 Blue 1.7°C C-715 2.0°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil 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 II

STATISTICAL ANALYSIS PROCEDURE SHEETS

4.3 Parametric Methods

4.3.1 Parametric ANOVA

Analysis | Parametric ANOVA

Description:

The one-way parametric Analysis of Variance (Parametric ANOVA) is useful for compliance to background (inter-well) comparisons.

The 1989 guidance recommends that for p wells (where p >= 2), there be at least 3 observations for each well and that the total sample size N is large enough that N-p >= 5. With fewer samples, the ability to detect contamination will be reduced.

The 1992 guidance recommends that there be fewer than 15% non-detects for the parametric ANOVA.

ChemStat performs the parametric ANOVA on the entire data set for a parameter. Individual comparisons for each well are then performed.

Use:

For inter-well comparisons.

Implementation:

1. For each well, calculate the totals and means of all samples from the individual well.

2. For the ith well and the jth sample from the ith well (including background wells), compute well totals and means as follows:

$$X_i = \sum_{j=1}^{n_i} x_{ij}$$: the total of all n_i observations at well i

$$\overline{X}_i = \frac{1}{n_i} X_i$$: average of all n_i observations at well i

$$X = \sum_{i=1}^{p} \sum_{j=1}^{n_i} x_{ij}$$: grand total of all observations for all wells

$$\overline{X} = \frac{1}{N} X$$: grand mean of all N observations

where:
N = the total number of samples from all wells
x_{ij} = the jth sample result from the ith well
p = the total number of wells

3. Compute the sum of squares of difference between well means and the grand mean:

$$SS_{wells} = \left(\sum_{i=1}^{p} \frac{1}{n_i} x_i^2 \right) - \frac{1}{N} X^2$$

with (p-1) degrees of freedom.

4. Compute the corrected total sum of squares

$$SS_{total} = \left(\sum_{i=1}^{p} \sum_{j=1}^{n_i} x_{ij}^2 \right) - \frac{X^2}{N}$$

with (N-1) degrees of freedom.

5. Compute the sum of squares of differences of observations within wells from the well means (sum of squares due to error).

$$SS_{error} = SS_{total} - SS_{wells}$$

with (N-p) degrees of freedom.

6. Calculate mean square quantities

$$MS_{wells} = SS_{wells} / (p - 1)$$

$$MS_{error} = SS_{error} / (N - p)$$

7. Set up the ANOVA table

Source of Variation	Sums of Squares	Degrees of Freedom	Mean Squares	F
Between Wells	SS_{wells}	p-1	MS_{wells}	$F = MS_{wells}/MS_{error}$
Error (within wells)	SS_{error}	N-p	MS_{error}	
Total	SS_{total}	N-1		

8. Compare the computed F statistic with a tabulated F-statistic with p-1 and N-p degrees of freedom at the 5% significance level. This is included in Table 2, Appendix B of the 1989 guidance document.

If the calculated F value exceeds the tabulated value, reject the hypothesis of equal well means (the down-gradient wells indicate contamination). Otherwise conclude that there is no significant difference between the concentrations at the p wells and therefore no evidence of contamination.

Individual Well Comparisons

Up to this point, the parametric ANOVA can only show that some well shows contamination, however the specific well or wells have not been identified. The Bonferroni t-statistic test is used to determine the individual wells that show statistically elevated concentrations of the parameter.

1. Assume that of the p wells, u are background wells and m are compliance wells. Obtain the total sample size n_b of all background wells:

$$n_b = \sum_{i=1}^{u} n_i$$

2. Compute the average concentration from the u background wells.

$$\overline{X}_b = \frac{1}{n_b} \sum_{i=1}^{u} \overline{x}_i$$

3. Compute the m differences between the average concentration of each compliance well and the average concentration of the background wells.

4. For the ith well, compute the standard error of each difference as:

$$SE_i = \left[MS_{error} \cdot \left(\frac{1}{n_b} + \frac{1}{n_i} \right) \right]^{1/2}$$

5. Obtain the t-statistic from Bonferroni's t-table (Table 3, Appendix B in the 1989 guidance) with (N-p) degrees of freedom. For more than 5 down-gradient wells, use the 1% significance level ($\alpha = 0.01$), otherwise use the 5% experitmentwise significance level ($\alpha = 0.05/m$ for individual well comparisons). If $m > 5$, use the table entry for $m = 5$.

6. Compute the Critical Value (D_i) for each compliance well.

$$D_i = SE_i \cdot t$$

7. For the ith well, compute the difference between the well mean and the background mean.

$$\delta = \overline{X}_i - \overline{X}_b$$

8. If $\delta > D_i$ the well shows a statistically significant increase in contamination. Otherwise, contamination of the well is not indicated.

9. Compute the residual (R_{ij}) for each compliance well sample.

$$R_{ij} = x_{ij} - \overline{x}_{ij}$$

If the residuals are not normally distributed, the parametric ANOVA is inappropriate.

Remarks:

The 1992 USEPA Statistical Guidance incorrectly states, and many authors have incorrectly stated, that the data set must be normally distributed and have equal well variance for the parametric ANOVA to be appropriate. The USEPA 1989 Statistical Guidance correctly states that the *residuals* must be normally distributed for the parametric ANOVA to be appropriate. Shapiro-Wilks method, Shapiro-Francia method, D'Agostino's method, and probability plots are methods included in ChemStat to test the normality of the residuals. The USEPA 1992 Statistical Guidance correctly states that normality is required for the parametric prediction limit and the parametric tolerance limit.

4.3.2 Parametric Prediction Limit (Inter-Well)

Inter-Well [illegible]

Description:

The inter-well parametric prediction limit is used to compare samples from background wells to a selected number of recent sampling dates for from compliance wells. If there are more than one sample per date, the samples for that date are averaged, and the average is compared to the prediction limit.

$$\overline{X} \pm t_{(0.99,n-1)} S/\sqrt{n}$$

ChemStat calculates the confidence interval at both the 95% and 99% levels of significance.

To determine if contamination exists in the well, the lower boundary of the confidence interval is compared to the comparison level. If the lower boundary of the confidence interval exceeds the Comparison level, the well shows a statistically significant level of contamination.

Remarks:

The parametric confidence interval is presented in detail in the 1989 guidance, along with two example data sets, which are included with ChemStat.

The 1992 guidance indicates that confidence intervals should not be used to compare to an MCL because it is possible for samples to exceed the MCL, and yet the mean of confidence limit would still fall below the MCL, indicating no contamination, when in fact, regulatory limits had been exceeded. The 1992 guidance also points out that unlike tolerance intervals, confidence intervals do not indicate how often individual samples will exceed the MCL.

4.4 Non-Parametric Methods

4.4.1 Kruskal-Wallis Non-Parametric Rank Method

Description:

The Kruskal-Wallis test is a non-parametric rank-based method that compares each compliance well to a group of background wells. It is recommended in the 1992 guidance document for data sets that do not follow a normal distribution, or have 15% to 90% non-detects.

ChemStat compares each compliance well to the background wells. Two comparisons are provided. The first comparison is performed at a minimum of 1% individual well comparison error level. The second comparison is performed at an experimentwise 5% error level, however the minimum error level may fall below the USEPA required value of 1%. The first comparison is compliant with USEPA guidance. The second comparison is less likely to produce false positives, but is more statistically accurate.

USEPA guidance recommends at least 4 observations for each well. Fewer observations will decrease the ability of the method to show statistical significance.

Use:

For comparison of compliance wells to background wells when data does not follow a normal distribution, or there are 15% to 90% non-detects.

Implementation:

1. Data from all background wells are pooled and the background is considered a group. Each compliance well is then also considered a group. For n observations in each of k groups, and N total observations:

2. Rank all N observations from least to greatest. R_{ij} is the rank of the jth observation for the ith group. Consider the background wells as group 1.

3. For each group, calculate the sum R_i and mean $\overline{R}_i$ of the ranks.

4. Calculate the Kruskal-Wallis statistic (H):

$$H = \left[\frac{12}{N(N+1)} \cdot \sum_{i=1}^{k} \frac{R_i^2}{n_i} \right] - 3(N+1)$$

5. Compare the calculated Kruskal-Wallis statistic to the tabulated chi-square value with (k-1) degrees of freedom (Table 1, Appendix B 1989 guidance).

If the computed value exceeds the tabulated value, there is evidence of contamination in at least one compliance well.

6. For each compliance well, compute the critical difference (C) of the well comparison to background.

$$C_i = Z_{(\alpha/(k-1))} \left[\frac{N(N+1)}{12} \right]^{1/2} \cdot \left(\frac{1}{n_1} + \frac{1}{n_i} \right)^{(1/2)}$$

where:

n_1 is the number of background samples (group 1 is considered the background group), and

$Z_{(\alpha/(k-1))}$ is the upper $(\alpha/(k-1))$ percentile of the standard normal distribution (Table 4, Appendix B, 1989 guidance). The 1989 guidance recommends that for (k > 6), use Z(0.01), the upper 1 percentile of the standard normal distribution.

Note that the above equation is presented incorrectly on page 5-16 of the 1989 guidance. The second exponent of ½ has been omitted.

7. For each compliance well, compare the difference of the average rank and the background average rank to the critical difference computer in step 6. If the critical difference is greater, the well shows evidence of contamination.

Adjusting for Ties:

ChemStat adjusts for tied observations for non-detect values only.

Remarks:

The Kruskal-Wallis test can only determine which compliance well is elevated with respect to background, but can not determine which specific samples cause the statistical trigger.

The 1992 guidance example problem for the Kruskal-Wallis method has an error. On page 43, the rank sum and rank mean for Well 3 are given as 51 and 10 respectively. The rank sum and rank mean should be 61 and 12.2 respectively.

4.4.2 Wilcoxon Rank-Sum Inter-Well Comparison

Analysis | Wilcoxon Rank-Sum (Inter-Well)

Description:

The Wilcoxon Rank-Sum method is a non-parametric method for comparing a selected compliance well to the background well.

ChemStat performs the comparison at the 99% level of significance.

At least four samples are recommended for each well.

Use:

For comparison of a single compliance well to background wells when data does not follow a normal distribution, or there are 15% to 90% non-detects.

Implementation:

1. For n compliance wells, and m background wells, with N total samples, combine the compliance and background well data and rank the ordered values from 1 to N.

2. Calculate the Wilcoxon statistic (W):

$$W = \sum_{i=1}^{n} C_i - \frac{1}{2} n(n+1)$$