APRIL 2009
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 17, 2009

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 20-22, 2009

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, P.G.	Project Geologist	704-523-4726

Signature: Courtney R. Withers Date: 7/17/09

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 ..... *3*
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) 7
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 on April 20 through April 22, 2009.

This report presents the results of the first sampling event for the year 2009 at the facility. The facility's monitoring network includes one (1) background well (MW-1A), twenty-eight (28) compliance wells, five (5) surface water sample locations, and one (1) leachate sample. The next sampling event is scheduled for October 2009.

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, 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, seventeen volatile organic compounds and sixteen metals were detected in MSW Area "E" and Phase 1 monitoring wells during the April 2009 monitoring event.

3.1.1.1 Volatile Organic Compounds (VOCs)

Background monitoring well MW-1A had a detection of Chloroform at a concentration of 15 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-9 through MW-20 contained sixteen volatile organic compounds. Of the VOCs detected, five compounds were detected above their respective 2L standard: 1,2-Dichloroethane, 1,4-Dichlorobenzene, Benzene, Tetrachloroethene, and Vinyl Chloride. Please note that monitoring wells MW-9, MW-10R, MW-12, MW-15, and MW-18 had no VOC detections above the method detection limit (MDL), and monitoring well MW-8 was dry.

The analytical results for monitoring well MW-13 indicated that 1,2-Dichloroethane, 1,4-Dichlorobenzene, Benzene, Tetrachloroethene, and Vinyl Chloride were detected above their respective 2L Standards at concentrations of 0.69 J, 3.6, 5.4, 3.2 and 1.0 µg/L, respectively. The results for monitoring well MW-16R indicated that 1,4-Dichlorobenzene, Benzene, and Vinyl Chloride were detected above their respective 2L Standard at concentrations of 1.8, 4.8, and 2.8 µg/L, respectively. The results for monitoring well MW-19R indicated that Tetrachloroethene was detected at a concentration of 1.7 µg/L, which is above the 2L Standard of 0.7 µg/L.

Monitoring wells MW-13, MW-14, MW-16R, MW-17, MW-19R 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 five or more Appendix I metals detected, however only three constituents were detected above their respective SW GWP Standard: Antimony, Cobalt, and Vanadium. Iron was also detected in background monitoring well MW-1A above its respective 2L Standard.

Antimony was detected above its SW GWP Standard of 1.4 µg/L in monitoring well MW-14 at a concentration of 1.78 J µg/L. Cobalt was detected above its SW GWP Standard of 70 µg/L in monitoring well MW-13 at a concentration of 292 µg/L. Vanadium was detected above its SW GWP Standard of 3.5 µg/L in monitoring well MW-10R at a concentration 4.2 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-19R) 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 2009 sampling event.

3.1.2.2 Inorganic Constituents (Metals)

The monitoring wells associated with the Phase 2 landfill had four 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-25A at a concentration of 3.8 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 2009 sampling event.

3.1.3.2 Inorganic Constituents (Metals)

The monitoring wells associated with the Phase 3 landfill had six 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 4.7 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 2009 monitoring event; however the laboratory analytical results indicated that monitoring wells MW-27 and MW-28 had at least two VOC detections.

Monitoring well MW-27 had detections of cis-1,2-Dichloroethene, Benzene, and total Xylenes at concentrations of 0.49 J, 0.53 J, and 0.91 J µg/L, respectively, which are below their respective 2L Standards. Monitoring well MW-28 had a detection of Tetrachloroethene at a concentration of 2.5 µg/L which is above the respective 2L Standard of 0.7 µg/L. MW-28 also had a detection of Trichlorofluoromethane at a concentration of 0.44 J µg/L, which is below its respective 2L Standard of 2100 µg/L.

3.1.4.2 Inorganic Constituents (Metals)

The monitoring wells associated with the C&D landfills had six 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-27, MW-29, MW-30, and MW-31 at concentrations ranging from 486 to 14,300 µg/L, which is above the NCAC 2L Standard of 300 µg/L. Manganese was detected in C&D landfill monitoring wells MW-26, and MW-27 at concentrations of 83.4 and 320 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 7.1 J and 5.2 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 fifth sampling event in which iron and manganese have been included in the analysis for the C&D wells and the fourth 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 four 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 NCAC 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. 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 the surface water samples during the April 2009 sampling event.

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

Iron was detected in SW-1, SW-3, and SW-5 at concentrations ranging from 1290 to 187000 µg/L, which are above the 2B Standard of 1000 µg/L. Thallium was detected in SW-1 at a concentration of 1.91 J µg/L, which is above the 2B Standard of 1.3 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 15A NCAC 2L groundwater 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			
Benzene	MW-13		X	50	Yes	
Chloroethane	MW-13	X	X	38	Yes	2
	MW-16		X	52	Yes	2
1,1-Dichloroethane	MW-13	X	X	3	Yes	2
	MW-16	X	X	39	Yes	2
	MW-19		X	52	Yes	2
	MW-20	X	X	52	Yes	2
Methylene Chloride	MW-13	X	X	47	Yes	2
	MW-16	X	X	48	Yes	2
	MW-19		X	56	Yes	2
	MW-20		X	52	Yes	2
Vinyl Chloride	MW-16		X	38	Yes	
Xylenes (Total)	MW-13	X	X	58	Yes	2
	MW-16	X	X	61	Yes	2
Barium	MW-15	X	X	32	Yes	2
	MW-33		X	18	Yes	2
	MW-34		X	18	Yes	2
Beryllium	MW-10	X		69	No	2
	MW-15	X		58	No	2
Cadmium	MW-8	X		70	No	
Chromium	MW-17	X		52	No	1
Cobalt	MW-8		X	35	Yes	
	MW-12		X	44	Yes	2
	MW-13	X	X	0	Yes	
	MW-16		X	13	No	2
Lead	MW-8	X		57	No	
Vanadium	MW-8	X		39	No	
	MW-10	X		38	No	
Zinc	MW-12	X	X	0	Yes	2

X indicates that there was statistical increase shown using the indicated analytical method.
1 – Nondetect in 2009
2- Was not detected above its respective 2L standard or SW GWP standard.

4.1 VOLATILE ORGANIC COMPOUNDS (VOCs)

Benzene, Chloroethane, Methylene Chloride, total Xylenes and 1,1-Dichloroethane 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, 15, 33 and 34) 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 2009 - 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	43.50	885.77
Leachate Lagoon	MW-8	840.03	**DRY**	**DRY**
Leachate Lagoon	MW-9	840.20	30.95	809.25
Leachate Lagoon	MW-10R	834.97	25.14	809.83
Area "E" and Phase 1	MW-12	827.57	4.60	822.97
Area "E" and Phase 1	MW-13	872.78	37.00*	835.78*
Area "E" and Phase 1	MW-14	871.44	30.76	840.68
Area "E" and Phase 1	MW-15	847.86	25.82	822.04
Area "E" and Phase 1	MW-16R	876.39	14.20	862.19
Area "E" and Phase 1	MW-17	899.64	34.78	864.86
Area "E" and Phase 1	MW-18	861.41	23.23	838.18
Area "E" and Phase 1	MW-19R	862.40	26.44	835.96
Area "E" and Phase 1	MW-20	860.00	14.65	845.35
Phase 2	MW-21	855.91	36.97	818.94
Phase 2	MW-24	841.13	23.85	817.28
Phase 2	MW-25	838.73	28.24	810.49
Phase 2	MW-25A	838.84	28.44	810.40
C&D Phase 1	MW-26	871.19	12.05	859.14
C&D Phase 1	MW-27	880.90	17.15	863.75
C&D Phase 1	MW-28	915.68	44.30	871.38
C&D Phase 2	MW-29*	879.97	36.60	843.37
C&D Phase 2	MW-30	886.35	50.03	836.32
C&D Phase 2	MW-31	879.88	28.81	851.07
Phase 3	MW-32R	827.25	14.00	813.25
Phase 3	MW-33	819.38	12.20	807.18
Phase 3	MW-33A	818.67	12.80	805.87
Phase 3	MW-34	832.77	27.58	805.19
Phase 3	MW-35	839.64	30.89	808.75
Phase 3	MW-35A	839.65	31.90	807.75

Notes:

(ft - MSL) - Feet Mean Sea Level

(ft) - Feet

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

* = Anomalous water level reading possibly due to conductivity

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 2009 - 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	70	NE		DRY				11	2.1 J		3.7 J			6.1	2.5 J
1,2-Dichloroethane	1	0.38	NE						**0.69 J**							
1,4 - Dichlorobenzene	1	1.4	NE						**3.6**			**1.8**				
cis-1,2,-Dichloroethene	5	70	NE						3.8 J			3.6 J			0.41 J	
Acetone	100	700	NE						26 J				19 J			
Benzene	1	1	NE						**5.4**			**4.8**			0.45 J	
Chlorobenzene	3	50	NE						0.49 J			0.94 J				
Chloroethane	10	2800	2800						2.5 J			1.2 J				
Chloroform	5	70	NE	15												
Ethylbenzene	1	550	NE						1.1							
Xylenes (total)	5	530	NE						7.9			5			0.41 J	
Methylene chloride	1	4.6	NE						1.8 J			2.6			1.2 J	0.56 J
Tetrachloroethene	1	0.7	NE						**3.2**	0.58 J					**1.7**	
Toluene	1	1000	NE						2							
Trichloroethene	1	2.8	NE						2.1						0.88 J	
Trichlorofluoromethane	1	2100	NE												0.59 J	
Vinyl chloride	1	0.015	NE						**1**			**2.8**				
EPA Appendix I Metals Method 6010B/6020 (ug/L)																
Antimony	6	NE	1.4							**1.78 J**						
Arsenic	10	50	NE						6.6 J			9.0 J				
Barium	100	2000	NE	29.3 J		30.5 J	46.9 J	202	117	25.1 J	67.6 J	266	43.4 J	64.8 J	26.1 J	46.8 J
Beryllium	1	NE	4	0.27 J		0.08 J	0.21 J	0.19 J	0.28 J		0.41 J	0.35 J	0.12 J			0.12 J
Cadmium	1	1.75	NE	0.15 JB		0.10 JB	0.14 JB	0.40 JB		0.42 JB		0.12 JB				
Chromium	10	50	NE	2.9 J		2.7 J	3.2 J		7.7 J			12.1				
Cobalt	10	NE	70					26.8	**292**			23.5	2.9 J	1.3 J		
Copper	10	1000	NE	0.88 J			1.28 J	2.99 J	1.69 J	2.43 J				1.06 J	1.37 J	
Iron	300	300	NE	**778**												
Lead	10	15	NE	2.2 J		1.6 J	2.0 J	1.8 J	5.1 J	2.6 J	2.8 J	8.8 J				
Manganese	50	50	NE	12.7 J												
Nickel	50	100	NE	3.1 J			1.5 J	6.1 J	34.4 J	1.9 J		8.8 J	2.7 J	2.2 J	0.6 J	0.8 J
Selenium	10	50	NE									9.2 J				
Thallium	5.5	NE	0.28						0.230 J			0.121 J				
Vanadium	25	NE	3.5	2.4 J		2.2 J	**4.2 J**		2.4 J	1.3 J	1.3 J			0.8 J	2.3 J	0.7 J
Zinc	10	1050	NE	12.7 B		6.8 JB	10.6 B	52.3 B	10.2 B	29.6 B	5.2 JB	14.5 B	7.1 JB	4.8 JB	10.1 B	28.6 B

Table 3
April 2009 - 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				1.00 J
Barium	100	2000	NE	28.9 J	43.3 J	137	34.5 J
Beryllium	1	NE	4	0.23 J	0.38 J	0.33 J	0.10 J
Cadmium	1	1.75	NE			0.13 JB	
Chromium	10	50	NE			4.5 J	4.5 J
Cobalt	10	NE	70				1.0 J
Lead	10	15	NE		2.0 J		2.2 J
Nickel	50	100	NE	0.6 J		1.4 J	
Vanadium	25	NE	3.5	1.6 J		1.1 J	**3.8 J**
Zinc	10	1050	NE	5.5 JB	8.6 JB	14.6 B	7.9 JB

Table 4
April 2009 - 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			0.75 J			
Barium	100	2000	NE	34.1 J	53.2 J	10.7 J	152	51.5 J	44.5 J
Beryllium	1	NE	4	0.51 J	0.39 J		0.90 J	0.25 J	0.11 J
Cadmium	1	1.75	NE			0.13 JB			
Chromium	10	50	NE	1.0 J				1.5 J	2.6 J
Cobalt	10	NE	70				3.7 J	1.9 J	
Copper	10	1000	NE			1.02 J			
Lead	10	15	NE	5.1 J	1.8 J			1.9 J	
Nickel	50	100	NE	1.3 J	1.0 J		1.4 J	1.8 J	
Vanadium	25	NE	3.5	**4.7 J**	1.3 J	2.0 J	1.9 J	4.4 J	3.2 J
Zinc	10	1050	NE	14.1 B	21.4 B	21.4 B	12.2 B	11	8.1 J

Table 5
April 2009 - 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		0.49 J	
Benzene	1	1	NE		0.53 J	
Tetrachlorethene	1	0.7	NE			**2.5**
Trichlorofluoromethane	1	2100	NE			0.44 J
Xylenes (Total)	5	530	NE		0.91 J	
EPA Appendix I Metals Method 6010B/6020 (ug/L)						
Barium	100	2000	NE	58.6 J	247	47.5 J
Beryllium	1	NE	4	0.16 J	0.81 J	0.15 J
Cadmium	1	1.75	NE		0.22 J	
Chromium	10	50	NE	2.3 J	2.4 J	
Cobalt	10	NE	70	3.0 J	7.2 J	1.4 J
Iron	300	300	NE	**486**	**701**	196 J
Lead	10	15	NE		2.6 J	1.6 J
Manganese	50	50	NE	**83.4**	**320**	30.7 J
Nickel	50	100	NE	3.2 J	8.9 J	2.1 J
Vanadium	25	NE	3.5	1.3 J	**7.1 J**	0.9 J
Zinc	10	1050	NE	6.2 J	22.1	7.5 J
Classical Chemistry Compounds (mg/L)						
Chloride	NE	250	NE	3.9 J	8.7	2.7 J
Sulfate as SO4	250	250	NE	3.3 J	2.1 J	
Total Dissolved Solids	NE	500000	NE	40	60	
Total Alkalinity	NE	NE	NE	22	31	

Table 6
April 2009 - 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	2000	NE	13.9 J	38.0 J	5.31 J
Beryllium	1	NE	4	0.46 J	0.12 J	
Cobalt	10	NE	70	1.4 J		
Copper	10	1000	NE	3.81 J		
Chromium	10	50	NE	2.5 J		
Iron	300	300	NE	**14300**	**676**	**4500**
Lead	10	15	NE	4.4 J	1.8 J	1.7 J
Manganese	50	50	NE	32.9 J	17.8 J	29.7 J
Nickel	50	100	NE	3.0 J	1.4 J	1.3 J
Selenium	10	50	NE	4.0 J		
Vanadium	25	NE	3.5	**5.2 J**	1.4 J	
Zinc	10	1050	NE	9.5 J	5.9 J	3.9 J
Classical Chemistry Compounds (mg/L)						
Chloride	NE	250	NE	3.9 J	2.8 J	3.0 J
Sulfate as SO4	250	250	NE	8.2 J	4.4 J	8.8 J
Total Dissolved Solids	NE	500000	NE	84	44	20
Total Alkalinity	NE	NE	NE	38	16	

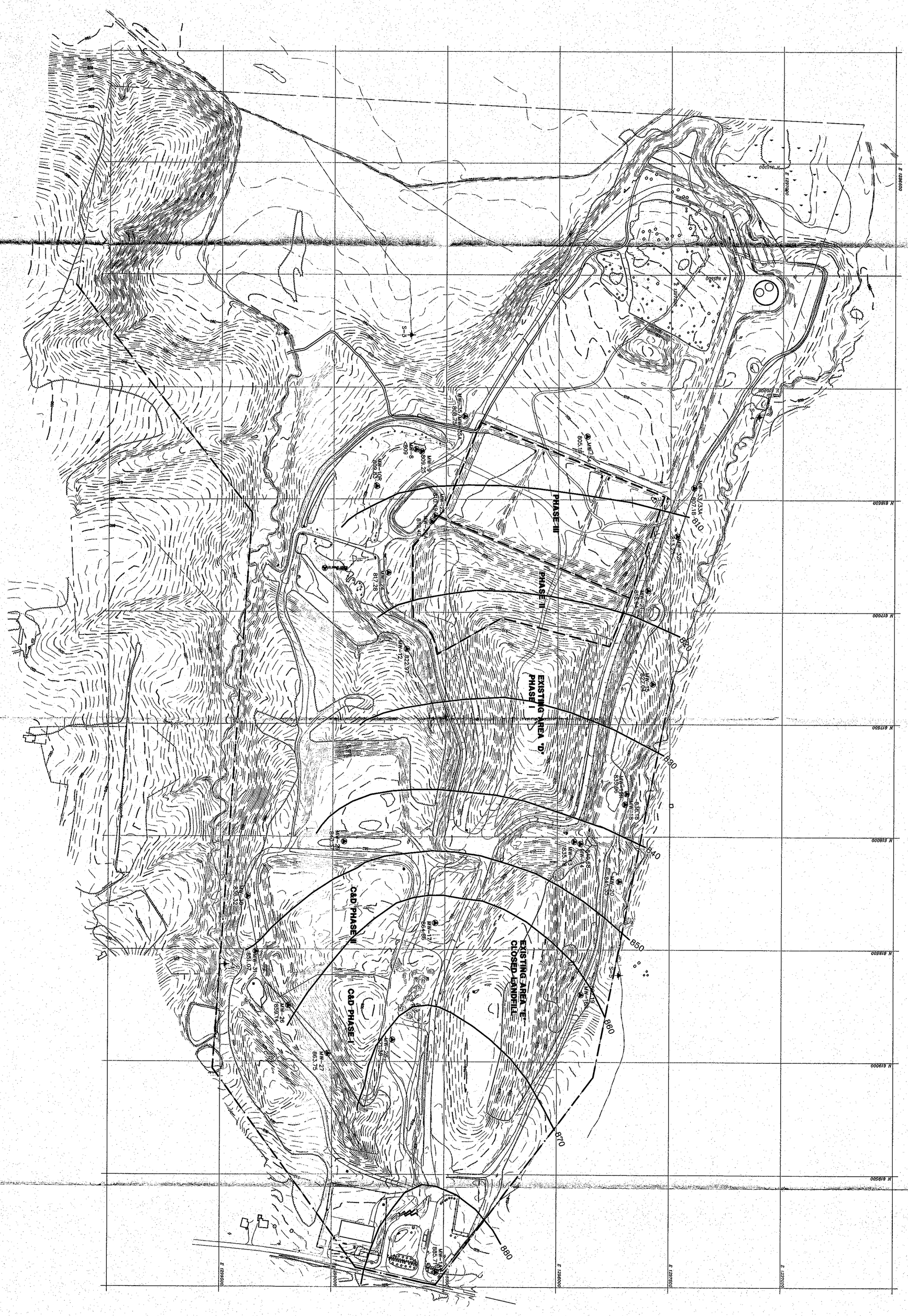
Table 7
April 2009 - Detected Analytes in Surface Water Samples
Lincoln County Landfill
S&ME Project No. 1356-07-004

EPA Appendix I Volatile Organic Compounds Method 8260 (ug/L)	**15A NCAC 2B**	**SW-1**	**SW-2**	**SW-3**	**SW-4**	**SW-5**
No Volatile Organic Compounds Detected in Surface Water Samples						
EPA Appendix I Metals Method 6010B/6020 (ug/L)						
Barium	1400	74.3 J	27.1 J	34.5 J	24.1 J	62.6 J
Beryllium	6.5			0.14 J		0.19 J
Chromium	50	0.9 J		4.4 J		2.1 J
Cobalt	65	6.3 J				23.6
Copper	7			0.93 J		
Iron	1000	**2290**	730	**1290**	386	**18700**
Lead	25	2.8 JB	1.6 JB	4.5 JB		3.5 JB
Manganese	NE	640	121	28.6 J	47.3 J	1300
Nickel	88	4.9 J	0.8 J	1.3 J		2.9 J
Selenium	5					**5.5 J**
Thallium	1.3	**1.91 J**				
Vanadium	NE	1.4 J	1.2 J	7.1 J	1.1 J	4.3 J
Zinc	50	31.3	3.6 J	4.5 J		9.3 J

Table 8
April 2009 - 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**	**Leachate**
2-Butanone	100	2400 D
2-Hexanone	50	170 D
4-Methyl-2-pentanone	100	21 JD
Acetone	100	950 D
Methylene chloride	1	17 JD
Toluene	1	11 D
EPA Appendix I Metals Method 6010B/6020 (ug/L)		
Antimony	NE	5.05 J
Arsenic	10	23.1
Barium	100	484
Chromium	10	36.6
Cobalt	10	70.6
Lead	10	9.1 J
Nickel	50	54.5
Selenium	10	24
Silver	10	6.6 J
Vanadium	25	10.3 J
Zinc	10	566
Classical Chemistry Compounds (mg/L)		
COD	NE	2600
Sulfate as SO4	250	20 J
Phosphorous	NE	1.8 D
Nitrate as N	10	0.052 J
Nitrate/Nitrite as N	NE	0.052 J
Total Alkalinity	NE	980 D
Total Suspended Solids	NE	11000

FIGURES



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

LEGEND

MW-10 ●	EXISTING MONITORING WELL
S-1 +	SURFACE WATER SAMPLING LOCATION
———	GROUNDWATER SURFACE (4/20-22/09)
814.39	GROUNDWATER ELEVATION (ft-msl)
— · — · —	PROPERTY BOUNDARY

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.

GROUNDWATER SURFACE MAP
APRIL 20-22, 2009

LINCOLN COUNTY LANDFILL
CROUSE, NORTH CAROLINA

NO.	DATE	DESCRIPTION	BY

NORTH CAROLINA LICENSED SEAL 2203 GEOLOGIST CURTIS RED WITHERS

7/17/09

S&ME
WWW.SMEINC.COM

9751 SOUTHERN PINE BLVD.
CHARLOTTE N.C. 28273
(704) 523-4726

LINCOLN COUNTY NORTH CAROLINA

LINCOLN COUNTY LANDFILL
5291 CROUSE ROAD
CROUSE, NORTH CAROLINA

SAME 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 6-22-09
DRAWING: 1	OF: 1

DRAWING PATH: G:\1356\LINCOLN COUNTY\07-004\GWATER_APRIL-09.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	4/22/2009	1050	Turbid/Low Flow
SW-2	4/22/2009	1100	Clear/Flowing
SW-3	4/22/2009	1120	Clear/Flowing
SW-4	4/21/2009	1045	Clear/Flowing
SW-5	4/21/2009	1030	Fe Staining/Slight Oil Sheen/ Low Flow
Lift Station	4/22/2009	0915	(Sampled from Pump #2 Lift Station)

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 2.3
Depth to Water (ft) 43.50
Depth to Base of Well (ft) 57.00
(well casing volume = water column*0.174)
Water Column (ft) 13.50
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1050	7.60	18.6	72
	2.3	1058	6.05	18.1	11
	4.7	1102	5.84	17.5	8
Final	7.0	1108	5.48	17.7	8

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 0855
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

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 DRY
Depth to Water (ft) DRY
Depth to Base of Well (ft) 31.00 (well casing volume = water column*0.174)
Water Column (ft) DRY
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date Purging Equipment

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0				
Final					

Well Sampling Data

Sampling Date
Sampling Time
Sampling Equipment
Sample Observations

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

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 6.9
Depth to Water (ft) 30.95
Depth to Base of Well (ft) 70.50
(well casing volume = water column*0.174)
Water Column (ft) 39.55
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1645	6.71	19.8	29
	6.9	1650	6.7	17.7	30
	13.8	1655	6.62	17.0	28
Final	20.6	1700	6.53	17.3	30

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 1125
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

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 1.1
Depth to Water (ft) 25.14
Depth to Base of Well (ft) 31.50
(well casing volume = water column*0.174)
Water Column (ft) 6.36
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1621	6.04	18.4	35
	1.1	1622	6.18	17.5	36
	2.2	1623	6.13	16.9	29
Final	3.3	1524	6.09	16.7	31

Well Sampling Data

Sampling Date 4/21/2009
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

Comments

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) 4.60
Depth to Base of Well (ft) 18.50
(well casing volume = water column*0.174)
Water Column (ft) 13.90
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/21/2009
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1140	5.88	15.2	118
	2.4	1142	5.71	14.1	94
	4.8	1144	5.75	13.9	102
Final	7.3	1146	5.59	13.8	101

Well Sampling Data

Sampling Date 4/22/2009
Sampling Time 1000
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 Broken hinge
Outer casing full of water

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 0.6
Depth to Water (ft) 37.00
Depth to Base of Well (ft) 40.50
(well casing volume = water column*0.174)
Water Column (ft) 3.50
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1413	5.97	19.0	169
	0.6	1414	6.04	18.2	176
	1.2	1415	6.09	17.6	197
Final	1.8	1416	6.07	17.5	205

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 1005
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

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 7.9
Depth to Water (ft) 30.76
Depth to Base of Well (ft) 76.00
(well casing volume = water column*0.174)
Water Column (ft) 45.24
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1410	6.60	22.5	65
	7.9	1415	6.63	17.6	68
	15.7	1420	6.36	17.4	70
Final	23.6	1425	6.42	17.8	67

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 1010
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

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 0.8
Depth to Water (ft) 25.82
Depth to Base of Well (ft) 30.50
(well casing volume = water column*0.174)
Water Column (ft) 4.68
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	1233	6.10	20.1	22
	0.8	1234	5.98	17.8	16
	1.6	1235	5.72	16.7	16
Final	2.4	1236	6.67	16.2	18

Well Sampling Data

Sampling Date 4/21/2009
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

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 1.3
Depth to Water (ft) 14.20
Depth to Base of Well (ft) 21.60
(well casing volume = water column*0.174)
Water Column (ft) 7.40
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	11:15	6.28	17.0	459
	1.3	11:19	6.37	15.6	479
	2.6	11:21	6.42	14.8	483
Final	3.9	11:23	6.48	14.4	509

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 9:00
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

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 0.3
Depth to Water (ft) 34.78
Depth to Base of Well (ft) 36.50
(well casing volume = water column*0.174)
Water Column (ft) 1.72
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	15:38	6.04	19.6	26
	0.3	15:38	5.48	18.4	17
	0.6	15:39	5.42	17.9	14
Final	0.9	15:39	5.23	17.5	12

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 11:00
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

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 1.5
Depth to Water (ft) 23.23
Depth to Base of Well (ft) 32.00
(well casing volume = water column*0.174)
Water Column (ft) 8.77
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	12:04	6.51	16.3	186
	1.5	12:07	6.48	14.9	186
	3.1				
Final	4.6				

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 09:15
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

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) 26.44
Depth to Base of Well (ft) 72.00
(well casing volume = water column*0.174)
Water Column (ft) 45.56
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	12:03	6.53	19.1	78
	7.9	12:08	6.33	15.7	80
	15.9	12:13	6.24	16.8	77
Final	23.8	12:18	6.38	17.2	78

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 09:25
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

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) 14.65
Depth to Base of Well (ft) 27.00
(well casing volume = water column*0.174)
Water Column (ft) 12.35
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	11:33	6.28	16.6	39
	2.1	11:37	5.83	15.4	38
	4.3	11:41	5.75	14.9	40
Final	6.4	11:44	5.65	15.2	40

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 09:08
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

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 1.2
Depth to Water (ft) 36.97
Depth to Base of Well (ft) 44.11
(well casing volume = water column*0.174)
Water Column (ft) 7.14
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	13:44	5.76	17.2	33
	1.2	13:46	5.69	16.4	35
	2.5	13:48	5.63	16.2	33
Final	3.7	13:50	5.61	16.2	43

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 10:20
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

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 1.3
Depth to Water (ft) 23.85
Depth to Base of Well (ft) 31.60
(well casing volume = water column*0.174)
Water Column (ft) 7.75
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	16:07	5.92	17.7	22
	1.3	16:09	5.85	16.9	23
	2.7	16:11	5.78	16.7	23
Final	4.0	16:13	5.71	16.3	23

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 11:15
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

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 0.6
Depth to Water (ft) 28.24
Depth to Base of Well (ft) 31.50
(well casing volume = water column*0.174)
Water Column (ft) 3.26
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/21/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	12:50	5.96	17.2	65
	0.6	12:50	5.91	17.1	63
Final					

Well Sampling Data

Sampling Date 4/22/2009
Sampling Time 9:45
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 0.75 Gallons

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 5.5
Depth to Water (ft) 28.44
Depth to Base of Well (ft) 60.00
(well casing volume = water column*0.174)
Water Column (ft) 31.56
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/21/2009
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	12:48	6.70	17.5	22
	5.5	12:52	6.49	17.0	21
	11.0	12:56	6.72	16.7	19
Final	16.5	13:00	6.76	16.7	21

Well Sampling Data

Sampling Date 4/22/2009
Sampling Time 9:50
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

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) 12.05
Depth to Base of Well (ft) 23.00
(well casing volume = water column*0.174)
Water Column (ft) 10.95
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/21/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	14:08	5.86	14.9	44
	1.9	14:10	5.52	13.5	40
	3.8	14:12	5.54	13.2	38
Final	5.7	14:14	5.54	13.1	36

Well Sampling Data

Sampling Date 4/22/2009
Sampling Time 10:30
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

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) 17.15
Depth to Base of Well (ft) 27.00
(well casing volume = water column*0.174)
Water Column (ft) 9.85
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/21/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	14:22	5.16	15.1	78
	1.7	14:23	5.15	14.8	79
	3.4	14:24	5.21	14.8	86
Final	5.1	14:25	5.20	14.9	86

Well Sampling Data

Sampling Date 4/22/2009
Sampling Time 10:35
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

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 1.8
Depth to Water (ft) 44.30
Depth to Base of Well (ft) 54.50
(well casing volume = water column*0.174)
Water Column (ft) 10.20
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/21/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	14:39	5.43	17.5	15
	1.8	14:41	5.44	16.7	11
	3.5	14:43	5.33	16.4	10
Final	5.3	14:45	5.24	16.2	10

Well Sampling Data

Sampling Date 4/22/2009
Sampling Time 11:30
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

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 1.5
Depth to Water (ft) 36.60
Depth to Base of Well (ft) 45.00
(well casing volume = water column*0.174)
Water Column (ft) 8.40
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Disposable Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	15:45	5.77	17.5	85
	1.5	15:47	5.76	16.8	86
	2.9	15:49	5.80	16.7	86
Final	4.4	15:51	5.79	16.4	87

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 11:05
Sampling Equipment disposable teflon bailer
Sample Observations Moderately 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
Broken Hinge on Protective Cover

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 2.4
Depth to Water (ft) 50.03
Depth to Base of Well (ft) 64.00
(well casing volume = water column*0.174)
Water Column (ft) 13.97
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/21/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	13:42	6.02	18.6	30
	2.4	13:43	6.16	16.7	25
	4.9	13:44	6.06	16.2	27
Final	7.3	13:45	6.09	16.1	27

Well Sampling Data

Sampling Date 4/22/2009
Sampling Time 10:10
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

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 1.9
Depth to Water (ft) 28.81
Depth to Base of Well (ft) 40.00
(well casing volume = water column*0.174)
Water Column (ft) 11.19
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/21/2009
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	13:30	6.32	18.3	33
	1.9	13;31	6.22	17.0	42
	3.9	13:32	6.04	16.1	27
Final	5.8	13:33	5.69	15.7	16

Well Sampling Data

Sampling Date 4/22/2009
Sampling Time 10:15
Sampling Equipment disposable teflon bailer
Sample Observations Moderately 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

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 2.4
Depth to Water (ft) 14.00
Depth to Base of Well (ft) 28.05
(well casing volume = water column*0.174)
Water Column (ft) 14.05
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	13:25	5.95	16.1	33
	2.4	13:28	5.97	15.0	34
	4.9	13:30	5.76	14.6	33
Final	7.3	13:33	5.61	14.5	35

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 9:55
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

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 2.3
Depth to Water (ft) 12.20
Depth to Base of Well (ft) 25.30
(well casing volume = water column*0.174)
Water Column (ft) 13.10
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	12:50	6.09	15.4	75
	2.3	12:52	5.55	14.3	79
	4.6	12:54	5.97	13.9	76
Final	6.8	12:56	5.82	13.6	75

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 9:40
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

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) 12.80
Depth to Base of Well (ft) 64.55
(well casing volume = water column*0.174)
Water Column (ft) 51.75
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/20/2009
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	12:47	6.72	18.5	156
	9.0	12:52	6.51	14.9	148
	18.0	12:57	6.66	15.1	135
Final	27.0	13:02	7.16	15.9	129

Well Sampling Data

Sampling Date 4/21/2009
Sampling Time 9:45
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

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 1.3
Depth to Water (ft) 27.58
Depth to Base of Well (ft) 35.27
(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 4/21/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	11:57	5.74	16.0	47
	1.3	11:59	5.35	16.0	41
Final					

Well Sampling Data

Sampling Date 4/22/2009
Sampling Time 9:30
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 Dry at 2 Gallons

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 1.1
Depth to Water (ft) 30.89
Depth to Base of Well (ft) 37.25
(well casing volume = water column*0.174)
Water Column (ft) 6.36
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/21/2009
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	12:14	5.55	15.5	9
	1.1	12:15	5.16	15.2	7
	2.2	12:16	5.42	15.0	9
Final	3.3	12:17	5.06	15.0	7

Well Sampling Data

Sampling Date 4/22/2009
Sampling Time 9:35
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

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 6.6
Depth to Water (ft) 31.90
Depth to Base of Well (ft) 69.69
(well casing volume = water column*0.174)
Water Column (ft) 37.79
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/21/2009
Purging Equipment Field Cleaned Typhoon Pump

	Total Voume (Gal)	Time	pH	Temp (C)	Conductance (µS)
Initial	0	12:11	6.15	16.0	37
	6.6	12:14	5.81	15.1	36
	13.2	12:17	5.13	14.9	32
Final	19.7	12:20	6.55	14.9	38

Well Sampling Data

Sampling Date 4/22/2009
Sampling Time 9:40
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

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

Thursday, April 30, 2009

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: C904408

Dear Courtney Withers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, April 23, 2009.

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 93.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 5503-MW1A **Lab ID:** C904408-01 **Sampled:** 04/21/09 08:55 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 14:20
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 12:50
EPA 7470A	05/19/09	04/23/09 11:24	4/23/2009 17:44
EPA 8260B	05/05/09	04/25/09 11:30	4/29/2009 14:31

Client ID: 5503-MW9 **Lab ID:** C904408-02 **Sampled:** 04/21/09 11:25 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 14:32
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 12:54
EPA 8260B	05/05/09	04/25/09 11:30	4/29/2009 15:01

Client ID: 5503-MW10R **Lab ID:** C904408-03 **Sampled:** 04/21/09 11:20 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 14:34
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 12:57
EPA 8260B	05/05/09	04/25/09 11:30	4/29/2009 15:31

Client ID: 5503-MW12 **Lab ID:** C904408-04 **Sampled:** 04/22/09 10:00 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/19/09	04/23/09 13:30	4/24/2009 14:36
EPA 6020	10/19/09	04/23/09 13:32	4/28/2009 13:00
EPA 8260B	05/06/09	04/25/09 11:30	4/29/2009 16:02

Client ID: 5503-MW13 **Lab ID:** C904408-05 **Sampled:** 04/21/09 10:05 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 14:46
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 13:04
EPA 8260B	05/05/09	04/25/09 11:30	4/29/2009 16:32

Client ID: 5503-MW14 **Lab ID:** C904408-06 **Sampled:** 04/21/09 10:10 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 14:48
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 13:07
EPA 8260B	05/05/09	04/25/09 11:30	4/29/2009 17:02

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Client ID:	5503-MW15	Lab ID:	C904408-07	Sampled:	04/21/09 09:30	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 14:51
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 13:11
EPA 8260B	05/05/09	04/25/09 11:30	4/29/2009 17:32

Client ID:	5503-MW16R	Lab ID:	C904408-08	Sampled:	04/21/09 09:00	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 14:53
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 13:14
EPA 8260B	05/05/09	04/25/09 11:30	4/29/2009 18:02

Client ID:	5503-MW17	Lab ID:	C904408-09	Sampled:	04/21/09 11:00	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 14:55
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 13:25
EPA 8260B	05/05/09	04/25/09 11:30	4/29/2009 18:33

Client ID:	5503-MW18	Lab ID:	C904408-10	Sampled:	04/21/09 09:15	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 14:58
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 13:28
EPA 8260B	05/05/09	04/25/09 11:30	4/29/2009 19:03

Client ID:	5503-MW19	Lab ID:	C904408-11	Sampled:	04/21/09 09:25	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 15:00
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 13:32
EPA 8260B	05/05/09	04/25/09 11:30	4/29/2009 19:33

Client ID:	5503-MW20	Lab ID:	C904408-12	Sampled:	04/21/09 09:08	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 15:02
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 13:35
EPA 8260B	05/05/09	04/29/09 12:56	4/30/2009 01:32

Client ID:	5503-MW21	Lab ID:	C904408-13	Sampled:	04/21/09 10:20	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 15:05
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 13:39
EPA 8260B	05/05/09	04/29/09 12:56	4/30/2009 02:02

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Client ID:	5503-MW24	Lab ID:	C904408-14	Sampled:	04/21/09 11:15	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 15:07
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 13:42
EPA 8260B	05/05/09	04/29/09 12:56	4/30/2009 02:32

Client ID:	5503-MW25	Lab ID:	C904408-15	Sampled:	04/22/09 09:45	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/19/09	04/23/09 13:30	4/24/2009 15:22
EPA 6020	10/19/09	04/23/09 13:32	4/28/2009 13:45
EPA 8260B	05/06/09	04/29/09 12:56	4/30/2009 03:02

Client ID:	5503-MW25A	Lab ID:	C904408-16	Sampled:	04/22/09 09:50	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/19/09	04/23/09 13:30	4/24/2009 15:25
EPA 6020	10/19/09	04/23/09 13:32	4/28/2009 13:49
EPA 8260B	05/06/09	04/29/09 12:56	4/30/2009 03:32

Client ID:	5503-MW32R	Lab ID:	C904408-17	Sampled:	04/21/09 09:55	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 15:27
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 13:52
EPA 8260B	05/05/09	04/29/09 12:56	4/30/2009 04:01

Client ID:	5503-MW33	Lab ID:	C904408-18	Sampled:	04/21/09 09:40	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 15:29
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 13:56
EPA 8260B	05/05/09	04/29/09 12:56	4/30/2009 04:31

Client ID:	5503-MW33A	Lab ID:	C904408-19	Sampled:	04/21/09 09:45	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/23/09 13:30	4/24/2009 15:31
EPA 6020	10/18/09	04/23/09 13:32	4/28/2009 14:06
EPA 8260B	05/05/09	04/29/09 12:56	4/30/2009 05:01

Client ID:	5503-MW34	Lab ID:	C904408-20	Sampled:	04/22/09 09:30	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/19/09	04/23/09 13:30	4/24/2009 15:34
EPA 6020	10/19/09	04/23/09 13:32	4/28/2009 12:26
EPA 8260B	05/06/09	04/29/09 12:56	4/30/2009 05:31

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Client ID:	5503-MW35	Lab ID:	C904408-21	Sampled:	04/22/09 09:35	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/19/09	04/23/09 16:47	4/27/2009 12:09
EPA 6020	10/19/09	04/23/09 17:01	4/28/2009 12:12
EPA 8260B	05/06/09	04/29/09 12:56	4/30/2009 06:00

Client ID:	5503-MW35A	Lab ID:	C904408-22	Sampled:	04/22/09 09:40	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/19/09	04/23/09 16:47	4/27/2009 12:11
EPA 6020	10/19/09	04/23/09 17:01	4/28/2009 12:15
EPA 8260B	05/06/09	04/29/09 12:56	4/30/2009 06:30

Client ID:	5503-Trip Blank	Lab ID:	C904408-23	Sampled:	04/21/09 08:55	Received:	04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	05/05/09	04/29/09 12:56	4/30/2009 07:00

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 5503-MW1A **Lab ID: C904408-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	29.3	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.27	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Cadmium - Total	0.15	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Chloroform	15		1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	2.9	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Copper - Total	0.88	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Iron - Total	778		1	31	50	300	ug/L	EPA 6010B	
Lead - Total	2.2	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Manganese - Total	12.7	J	1	1.1	10.0	50	ug/L	EPA 6010B	
Nickel - Total	3.1	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	2.4	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	12.7	B	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW9 **Lab ID: C904408-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	30.5	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.08	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Cadmium - Total	0.10	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Chromium - Total	2.7	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Lead - Total	1.6	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Vanadium - Total	2.2	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	6.8	JB	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW10R **Lab ID: C904408-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	46.9	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.21	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Cadmium - Total	0.14	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Chromium - Total	3.2	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Copper - Total	1.28	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Lead - Total	2.0	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.5	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	4.2	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	10.6	B	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW12 **Lab ID: C904408-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	202		1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.19	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Cadmium - Total	0.40	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Cobalt - Total	26.8		1	0.6	10.0	10	ug/L	EPA 6010B	
Copper - Total	2.99	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Lead - Total	1.8	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	6.1	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Zinc - Total	52.3	B	1	3.4	10.0	10	ug/L	EPA 6010B	QB-01

Client ID: 5503-MW13 **Lab ID: C904408-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes

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Client ID: 5503-MW13						Lab ID: C904408-05			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,1-Dichloroethane	11		1	0.33	1.0	5	ug/L	EPA 8260B	
1,2-Dichloroethane	0.69	J	1	0.65	1.0	1	ug/L	EPA 8260B	
1,4-Dichlorobenzene	3.6		1	0.38	1.0	1	ug/L	EPA 8260B	
Acetone	26	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Arsenic - Total	6.6	J	1	2.8	10.0	10	ug/L	EPA 6010B	
Barium - Total	117		1	4.20	10.0	100	ug/L	EPA 6010B	
Benzene	5.4		1	0.20	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.28	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Chlorobenzene	0.49	J	1	0.27	1.0	3	ug/L	EPA 8260B	
Chloroethane	2.5	J	1	0.30	1.0	10	ug/L	EPA 8260B	
Chromium - Total	7.7	J	1	0.7	10.0	10	ug/L	EPA 6010B	
cis-1,2-Dichloroethene	3.8	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	292		1	0.6	10.0	10	ug/L	EPA 6010B	
Copper - Total	1.69	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Ethylbenzene	1.1		1	0.20	1.0	1	ug/L	EPA 8260B	
Lead - Total	5.1	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Methylene chloride	1.8	J	1	0.53	2.0	1	ug/L	EPA 8260B	
Nickel - Total	34.4	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Tetrachloroethene	3.2		1	0.36	1.0	1	ug/L	EPA 8260B	
Thallium - Total	0.230	J	1	0.036	1.00	5.5	ug/L	EPA 6020	
Toluene	2.0		1	0.27	1.0	1	ug/L	EPA 8260B	
Trichloroethene	2.1		1	0.38	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	2.4	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Vinyl chloride	1.0		1	0.30	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	7.9		1	0.40	1.0	5	ug/L	EPA 8260B	
Zinc - Total	10.2	B	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW14						Lab ID: C904408-06			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,1-Dichloroethane	2.1	J	1	0.33	1.0	5	ug/L	EPA 8260B	
Antimony - Total	1.78	J	1	0.68	2.00	6	ug/L	EPA 6020	
Barium - Total	25.1	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.42	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Copper - Total	2.43	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Lead - Total	2.6	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.9	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Tetrachloroethene	0.58	J	1	0.36	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	1.3	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	29.6	B	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW15						Lab ID: C904408-07			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	67.6	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.41	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Lead - Total	2.8	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Vanadium - Total	1.3	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	5.2	JB	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW16R						Lab ID: C904408-08			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,1-Dichloroethane	3.7	J	1	0.33	1.0	5	ug/L	EPA 8260B	

Client ID: 5503-MW16R **Lab ID: C904408-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	1.8		1	0.38	1.0	1	ug/L	EPA 8260B	
Arsenic - Total	9.0	J	1	2.8	10.0	10	ug/L	EPA 6010B	
Barium - Total	266		1	4.20	10.0	100	ug/L	EPA 6010B	
Benzene	4.8		1	0.20	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.35	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Cadmium - Total	0.12	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Chlorobenzene	0.94	J	1	0.27	1.0	3	ug/L	EPA 8260B	
Chloroethane	1.2	J	1	0.30	1.0	10	ug/L	EPA 8260B	
Chromium - Total	12.1		1	0.7	10.0	10	ug/L	EPA 6010B	
cis-1,2-Dichloroethene	3.6	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	23.5		1	0.6	10.0	10	ug/L	EPA 6010B	
Lead - Total	8.8	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Methylene chloride	2.6		1	0.53	2.0	1	ug/L	EPA 8260B	
Nickel - Total	8.8	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Selenium - Total	9.2	J	1	3.4	10.0	10	ug/L	EPA 6010B	
Thallium - Total	0.121	J	1	0.036	1.00	5.5	ug/L	EPA 6020	
Vinyl chloride	2.8		1	0.30	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	5.0		1	0.40	1.0	5	ug/L	EPA 8260B	
Zinc - Total	14.5	B	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW17 **Lab ID: C904408-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	19	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium - Total	43.4	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.12	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Cobalt - Total	2.9	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	2.7	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Zinc - Total	7.1	JB	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW18 **Lab ID: C904408-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	64.8	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Cobalt - Total	1.3	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Copper - Total	1.06	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Nickel - Total	2.2	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	0.8	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	4.8	JB	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW19 **Lab ID: C904408-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	6.1		1	0.33	1.0	5	ug/L	EPA 8260B	
Barium - Total	26.1	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Benzene	0.45	J	1	0.20	1.0	1	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	0.41	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Copper - Total	1.37	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Methylene chloride	1.2	J	1	0.53	2.0	1	ug/L	EPA 8260B	
Nickel - Total	0.6	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Tetrachloroethene	1.7		1	0.36	1.0	1	ug/L	EPA 8260B	
Trichloroethene	0.88	J	1	0.38	1.0	1	ug/L	EPA 8260B	
Trichlorofluoromethane	0.59	J	1	0.28	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	2.3	J	1	0.7	10.0	25	ug/L	EPA 6010B	

Client ID: 5503-MW19 **Lab ID: C904408-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Xylenes (Total)	0.41	J	1	0.40	1.0	5	ug/L	EPA 8260B	
Zinc - Total	10.1	B	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW20 **Lab ID: C904408-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	2.5	J	1	0.33	1.0	5	ug/L	EPA 8260B	
Barium - Total	46.8	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.12	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Methylene chloride	0.56	J	1	0.53	2.0	1	ug/L	EPA 8260B	
Nickel - Total	0.8	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	0.7	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	28.6	B	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW21 **Lab ID: C904408-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	28.9	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.23	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Nickel - Total	0.6	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	1.6	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	5.5	JB	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW24 **Lab ID: C904408-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	43.3	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.38	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Lead - Total	2.0	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Zinc - Total	8.6	JB	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW25 **Lab ID: C904408-15**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	137		1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.33	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Cadmium - Total	0.13	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Chromium - Total	4.5	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.4	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	1.1	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	14.6	B	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW25A **Lab ID: C904408-16**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	1.00	J	1	0.68	2.00	6	ug/L	EPA 6020	
Barium - Total	34.5	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.10	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Chromium - Total	4.5	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Cobalt - Total	1.0	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Lead - Total	2.2	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Vanadium - Total	3.8	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	7.9	JB	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW32R **Lab ID: C904408-17**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes

Client ID: 5503-MW32R **Lab ID: C904408-17**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	34.1	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.51	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Chromium - Total	1.0	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Lead - Total	5.1	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.3	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	4.7	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	14.1	B	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW33 **Lab ID: C904408-18**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	53.2	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.39	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Lead - Total	1.8	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.0	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	1.3	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	18.2	B	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW33A **Lab ID: C904408-19**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.75	J	1	0.68	2.00	6	ug/L	EPA 6020	
Barium - Total	10.7	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.13	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Copper - Total	1.02	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Vanadium - Total	2.0	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	21.4	B	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW34 **Lab ID: C904408-20**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	152		1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.90	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Cobalt - Total	3.7	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.4	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	1.9	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	12.2	B	1	3.4	10.0	10	ug/L	EPA 6010B	J-01

Client ID: 5503-MW35 **Lab ID: C904408-21**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	51.5	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.25	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Chromium - Total	1.5	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Cobalt - Total	1.9	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Lead - Total	1.9	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.8	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	4.4	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	11.0		1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 5503-MW35A **Lab ID: C904408-22**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	44.5	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.11	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Chromium - Total	2.6	J	1	0.7	10.0	10	ug/L	EPA 6010B	

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Client ID:	5503-MW35A				Lab ID:	C904408-22			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Vanadium - Total	3.2	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	8.1	J	1	3.4	10.0	10	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

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

Lab Sample ID: C904408-01
Sampled: 04/21/09 08:55
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 14:31	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/29/09 14:31	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/29/09 14:31	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/29/09 14:31	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/09 14:31	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/29/09 14:31	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/09 14:31	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/09 14:31	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/09 14:31	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/09 14:31	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/29/09 14:31	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/29/09 14:31	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/29/09 14:31	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/29/09 14:31	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/09 14:31	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/29/09 14:31	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/29/09 14:31	JKG	
Chloroform [67-66-3] ^	**15**		ug/L	1	0.20	1.0	5	EPA 8260B	04/29/09 14:31	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/29/09 14:31	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/29/09 14:31	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/29/09 14:31	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/29/09 14:31	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/29/09 14:31	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/29/09 14:31	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/09 14:31	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 14:31	JKG	

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Description:	5503-MW1A	**Lab Sample ID:**	C904408-01	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 08:55	**Work Order:**	C904408
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
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/29/09 14:31	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/29/09 14:31	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 14:31	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9D25003*	*EPA 8260B*	*04/29/09 14:31*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*68-117*	*9D25003*	*EPA 8260B*	*04/29/09 14:31*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*101 %*	*69-110*	*9D25003*	*EPA 8260B*	*04/29/09 14:31*	*JKG*	

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Description:	5503-MW1A	**Lab Sample ID:**	C904408-01	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 08:55	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 12:50	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 14:20	JDH	
Barium [7440-39-3] ^	**29.3**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 14:20	JDH	
Beryllium [7440-41-7] ^	**0.27**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 14:20	JDH	
Cadmium [7440-43-9] ^	**0.15**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 14:20	JDH	J-01
Chromium [7440-47-3] ^	**2.9**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 14:20	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 14:20	JDH	
Copper [7440-50-8] ^	**0.88**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 14:20	JDH	
Iron [7439-89-6] ^	**778**		ug/L	1	31	50	300	EPA 6010B	04/24/09 14:20	JDH	
Lead [7439-92-1] ^	**2.2**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 14:20	JDH	
Manganese [7439-96-5] ^	**12.7**	J	ug/L	1	1.1	10.0	50	EPA 6010B	04/24/09 14:20	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	04/23/09 17:44	NLH	
Nickel [7440-02-0] ^	**3.1**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 14:20	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:20	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 14:20	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 12:50	VLO	
Vanadium [7440-62-2] ^	**2.4**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 14:20	JDH	
Zinc [7440-66-6] ^	**12.7**	B	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:20	JDH	J-01

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
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-02
Sampled: 04/21/09 11:25
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 15:01	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/29/09 15:01	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/29/09 15:01	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/29/09 15:01	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/09 15:01	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/29/09 15:01	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/09 15:01	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/09 15:01	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/09 15:01	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/09 15:01	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/29/09 15:01	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/29/09 15:01	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/29/09 15:01	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/29/09 15:01	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/09 15:01	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/29/09 15:01	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/29/09 15:01	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/29/09 15:01	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/29/09 15:01	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/29/09 15:01	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/29/09 15:01	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/29/09 15:01	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/29/09 15:01	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/29/09 15:01	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/09 15:01	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 15:01	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/29/09 15:01	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/29/09 15:01	JKG	

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Description:	5503-MW9	**Lab Sample ID:**	C904408-02	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 11:25	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 15:01	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9D25003*	*EPA 8260B*	*04/29/09 15:01*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*9D25003*	*EPA 8260B*	*04/29/09 15:01*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*9D25003*	*EPA 8260B*	*04/29/09 15:01*	*JKG*	

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Description: 5503-MW9
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-02
Sampled: 04/21/09 11:25
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 12:54	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 14:32	JDH	
Barium [7440-39-3] ^	**30.5**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 14:32	JDH	
Beryllium [7440-41-7] ^	**0.08**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 14:32	JDH	
Cadmium [7440-43-9] ^	**0.10**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 14:32	JDH	J-01
Chromium [7440-47-3] ^	**2.7**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 14:32	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 14:32	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 14:32	JDH	
Lead [7439-92-1] ^	**1.6**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 14:32	JDH	
Nickel [7440-02-0] ^	0.6	U	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 14:32	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:32	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 14:32	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 12:54	VLO	
Vanadium [7440-62-2] ^	**2.2**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 14:32	JDH	
Zinc [7440-66-6] ^	**6.8**	JB	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:32	JDH	J-01

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: C904408-03
Sampled: 04/21/09 11:20
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 15:31	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/29/09 15:31	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/29/09 15:31	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/29/09 15:31	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/09 15:31	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/29/09 15:31	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/09 15:31	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/09 15:31	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/09 15:31	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/09 15:31	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/29/09 15:31	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/29/09 15:31	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/29/09 15:31	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/29/09 15:31	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/09 15:31	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/29/09 15:31	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/29/09 15:31	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/29/09 15:31	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/29/09 15:31	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/29/09 15:31	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/29/09 15:31	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/29/09 15:31	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/29/09 15:31	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/29/09 15:31	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/09 15:31	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 15:31	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/29/09 15:31	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/29/09 15:31	JKG	

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Description:	5503-MW10R	**Lab Sample ID:**	C904408-03	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 11:20	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 15:31	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*51-122*	*9D25003*	*EPA 8260B*	*04/29/09 15:31*	*JKG*	
Dibromofluoromethane	*41*	*1*	*50.0*	*83 %*	*68-117*	*9D25003*	*EPA 8260B*	*04/29/09 15:31*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*93 %*	*69-110*	*9D25003*	*EPA 8260B*	*04/29/09 15:31*	*JKG*	

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

Lab Sample ID: C904408-03
Sampled: 04/21/09 11:20
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 12:57	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 14:34	JDH	
Barium [7440-39-3] ^	**46.9**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 14:34	JDH	
Beryllium [7440-41-7] ^	**0.21**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 14:34	JDH	
Cadmium [7440-43-9] ^	**0.14**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 14:34	JDH	J-01
Chromium [7440-47-3] ^	**3.2**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 14:34	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 14:34	JDH	
Copper [7440-50-8] ^	**1.28**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 14:34	JDH	
Lead [7439-92-1] ^	**2.0**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 14:34	JDH	
Nickel [7440-02-0] ^	**1.5**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 14:34	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:34	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 14:34	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 12:57	VLO	
Vanadium [7440-62-2] ^	**4.2**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 14:34	JDH	
Zinc [7440-66-6] ^	**10.6**	B	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:34	JDH	J-01

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
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-04
Sampled: 04/22/09 10:00
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 16:02	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/29/09 16:02	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/29/09 16:02	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/29/09 16:02	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/09 16:02	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/29/09 16:02	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/09 16:02	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/09 16:02	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/09 16:02	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/09 16:02	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/29/09 16:02	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/29/09 16:02	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/29/09 16:02	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/29/09 16:02	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/09 16:02	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/29/09 16:02	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/29/09 16:02	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/29/09 16:02	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/29/09 16:02	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/29/09 16:02	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/29/09 16:02	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/29/09 16:02	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/29/09 16:02	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/29/09 16:02	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/09 16:02	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 16:02	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/29/09 16:02	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/29/09 16:02	JKG	

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Description:	5503-MW12	**Lab Sample ID:**	C904408-04	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 10:00	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 16:02	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*51-122*	*9D25003*	*EPA 8260B*	*04/29/09 16:02*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*9D25003*	*EPA 8260B*	*04/29/09 16:02*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*93 %*	*69-110*	*9D25003*	*EPA 8260B*	*04/29/09 16:02*	*JKG*	

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Description:	5503-MW12	**Lab Sample ID:**	C904408-04	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 10:00	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:00	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 14:36	JDH	
Barium [7440-39-3] ^	**202**		ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 14:36	JDH	
Beryllium [7440-41-7] ^	**0.19**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 14:36	JDH	
Cadmium [7440-43-9] ^	**0.40**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 14:36	JDH	J-01
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 14:36	JDH	
Cobalt [7440-48-4] ^	**26.8**		ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 14:36	JDH	
Copper [7440-50-8] ^	**2.99**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 14:36	JDH	
Lead [7439-92-1] ^	**1.8**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 14:36	JDH	
Nickel [7440-02-0] ^	**6.1**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 14:36	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:36	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 14:36	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:00	VLO	
Vanadium [7440-62-2] ^	0.7	U	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 14:36	JDH	
Zinc [7440-66-6] ^	**52.3**	B	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:36	JDH	QB-01

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Description: 5503-MW13
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-05
Sampled: 04/21/09 10:05
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 16:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/29/09 16:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
1,1-Dichloroethane [75-34-3] ^	**11**		ug/L	1	0.33	1.0	5	EPA 8260B	04/29/09 16:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/29/09 16:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/09 16:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/29/09 16:32	JKG	
1,2-Dichloroethane [107-06-2] ^	**0.69**	J	ug/L	1	0.65	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**3.6**		ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/09 16:32	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/09 16:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/09 16:32	JKG	
Acetone [67-64-1] ^	**26**	J	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/09 16:32	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/29/09 16:32	JKG	
Benzene [71-43-2] ^	**5.4**		ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/29/09 16:32	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/29/09 16:32	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/29/09 16:32	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/09 16:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
Chlorobenzene [108-90-7] ^	**0.49**	J	ug/L	1	0.27	1.0	3	EPA 8260B	04/29/09 16:32	JKG	
Chloroethane [75-00-3] ^	**2.5**	J	ug/L	1	0.30	1.0	10	EPA 8260B	04/29/09 16:32	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/29/09 16:32	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**3.8**	J	ug/L	1	0.36	1.0	5	EPA 8260B	04/29/09 16:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/29/09 16:32	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/29/09 16:32	JKG	
Ethylbenzene [100-41-4] ^	**1.1**		ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/29/09 16:32	JKG	
Methylene chloride [75-09-2] ^	**1.8**	J	ug/L	1	0.53	2.0	1	EPA 8260B	04/29/09 16:32	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
Tetrachloroethene [127-18-4] ^	**3.2**		ug/L	1	0.36	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
Toluene [108-88-3] ^	**2.0**		ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/29/09 16:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/09 16:32	JKG	
Trichloroethene [79-01-6] ^	**2.1**		ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/29/09 16:32	JKG	
Vinyl chloride [75-01-4] ^	**1.0**		ug/L	1	0.30	1.0	1	EPA 8260B	04/29/09 16:32	JKG	
Xylenes (Total) [1330-20-7] ^	**7.9**		ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 16:32	JKG	

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Description:	5503-MW13	**Lab Sample ID:**	C904408-05	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 10:05	**Work Order:**	C904408
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*	*93 %*	*51-122*	*9D25003*	*EPA 8260B*	*04/29/09 16:32*	*JKG*	
Dibromofluoromethane	*41*	*1*	*50.0*	*83 %*	*68-117*	*9D25003*	*EPA 8260B*	*04/29/09 16:32*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*9D25003*	*EPA 8260B*	*04/29/09 16:32*	*JKG*	

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Description:	5503-MW13	**Lab Sample ID:**	C904408-05	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 10:05	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:04	VLO	
Arsenic [7440-38-2] ^	**6.6**	J	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 14:46	JDH	
Barium [7440-39-3] ^	**117**		ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 14:46	JDH	
Beryllium [7440-41-7] ^	**0.28**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 14:46	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 14:46	JDH	
Chromium [7440-47-3] ^	**7.7**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 14:46	JDH	
Cobalt [7440-48-4] ^	**292**		ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 14:46	JDH	
Copper [7440-50-8] ^	**1.69**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 14:46	JDH	
Lead [7439-92-1] ^	**5.1**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 14:46	JDH	
Nickel [7440-02-0] ^	**34.4**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 14:46	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:46	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 14:46	JDH	
Thallium [7440-28-0] ^	**0.230**	J	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:04	VLO	
Vanadium [7440-62-2] ^	**2.4**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 14:46	JDH	
Zinc [7440-66-6] ^	**10.2**	B	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:46	JDH	J-01

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
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-06
Sampled: 04/21/09 10:10
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 17:02	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/29/09 17:02	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
1,1-Dichloroethane [75-34-3] ^	**2.1**	J	ug/L	1	0.33	1.0	5	EPA 8260B	04/29/09 17:02	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/29/09 17:02	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/09 17:02	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/29/09 17:02	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/09 17:02	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/09 17:02	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/09 17:02	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/09 17:02	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/29/09 17:02	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/29/09 17:02	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/29/09 17:02	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/29/09 17:02	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/09 17:02	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/29/09 17:02	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/29/09 17:02	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/29/09 17:02	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/29/09 17:02	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/29/09 17:02	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/29/09 17:02	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/29/09 17:02	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/29/09 17:02	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
Tetrachloroethene [127-18-4] ^	**0.58**	J	ug/L	1	0.36	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/29/09 17:02	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/09 17:02	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 17:02	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/29/09 17:02	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/29/09 17:02	JKG	

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Description:	5503-MW14	**Lab Sample ID:**	C904408-06	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 10:10	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 17:02	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*9D25003*	*EPA 8260B*	*04/29/09 17:02*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*87 %*	*68-117*	*9D25003*	*EPA 8260B*	*04/29/09 17:02*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*9D25003*	*EPA 8260B*	*04/29/09 17:02*	*JKG*	

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Description:	5503-MW14	**Lab Sample ID:**	C904408-06	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 10:10	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	**1.78**	J	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:07	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 14:48	JDH	
Barium [7440-39-3] ^	**25.1**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 14:48	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 14:48	JDH	
Cadmium [7440-43-9] ^	**0.42**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 14:48	JDH	J-01
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 14:48	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 14:48	JDH	
Copper [7440-50-8] ^	**2.43**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 14:48	JDH	
Lead [7439-92-1] ^	**2.6**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 14:48	JDH	
Nickel [7440-02-0] ^	**1.9**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 14:48	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:48	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 14:48	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:07	VLO	
Vanadium [7440-62-2] ^	**1.3**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 14:48	JDH	
Zinc [7440-66-6] ^	**29.6**	B	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:48	JDH	J-01

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Description: 5503-MW15
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-07
Sampled: 04/21/09 09:30
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 17:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/29/09 17:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/29/09 17:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/29/09 17:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/09 17:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/29/09 17:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/09 17:32	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/09 17:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/09 17:32	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/09 17:32	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/29/09 17:32	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/29/09 17:32	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/29/09 17:32	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/29/09 17:32	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/09 17:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/29/09 17:32	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/29/09 17:32	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/29/09 17:32	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/29/09 17:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/29/09 17:32	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/29/09 17:32	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/29/09 17:32	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/29/09 17:32	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/29/09 17:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/09 17:32	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 17:32	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/29/09 17:32	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/29/09 17:32	JKG	

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Description:	5503-MW15	**Lab Sample ID:**	C904408-07	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:30	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 17:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9D25003*	*EPA 8260B*	*04/29/09 17:32*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*9D25003*	*EPA 8260B*	*04/29/09 17:32*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*9D25003*	*EPA 8260B*	*04/29/09 17:32*	*JKG*	

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Description:	5503-MW15	**Lab Sample ID:**	C904408-07	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:30	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:11	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 14:51	JDH	
Barium [7440-39-3] ^	**67.6**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 14:51	JDH	
Beryllium [7440-41-7] ^	**0.41**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 14:51	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 14:51	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 14:51	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 14:51	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 14:51	JDH	
Lead [7439-92-1] ^	**2.8**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 14:51	JDH	
Nickel [7440-02-0] ^	0.6	U	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 14:51	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:51	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 14:51	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:11	VLO	
Vanadium [7440-62-2] ^	**1.3**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 14:51	JDH	
Zinc [7440-66-6] ^	**5.2**	JB	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:51	JDH	J-01

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: C904408-08
Sampled: 04/21/09 09:00
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 18:02	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/29/09 18:02	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
1,1-Dichloroethane [75-34-3] ^	**3.7**	J	ug/L	1	0.33	1.0	5	EPA 8260B	04/29/09 18:02	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/29/09 18:02	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/09 18:02	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/29/09 18:02	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**1.8**		ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/09 18:02	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/09 18:02	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/09 18:02	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/09 18:02	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/29/09 18:02	JKG	
Benzene [71-43-2] ^	**4.8**		ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/29/09 18:02	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/29/09 18:02	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/29/09 18:02	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/09 18:02	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
Chlorobenzene [108-90-7] ^	**0.94**	J	ug/L	1	0.27	1.0	3	EPA 8260B	04/29/09 18:02	JKG	
Chloroethane [75-00-3] ^	**1.2**	J	ug/L	1	0.30	1.0	10	EPA 8260B	04/29/09 18:02	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/29/09 18:02	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**3.6**	J	ug/L	1	0.36	1.0	5	EPA 8260B	04/29/09 18:02	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/29/09 18:02	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/29/09 18:02	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/29/09 18:02	JKG	
Methylene chloride [75-09-2] ^	**2.6**		ug/L	1	0.53	2.0	1	EPA 8260B	04/29/09 18:02	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/29/09 18:02	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 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	04/29/09 18:02	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 18:02	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/29/09 18:02	JKG	
Vinyl chloride [75-01-4] ^	**2.8**		ug/L	1	0.30	1.0	1	EPA 8260B	04/29/09 18:02	JKG	

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Description:	5503-MW16R	**Lab Sample ID:**	C904408-08	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:00	**Work Order:**	C904408
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] ^	**5.0**		ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 18:02	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*9D25003*	*EPA 8260B*	*04/29/09 18:02*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*9D25003*	*EPA 8260B*	*04/29/09 18:02*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*69-110*	*9D25003*	*EPA 8260B*	*04/29/09 18:02*	*JKG*	

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Description:	5503-MW16R	**Lab Sample ID:**	C904408-08	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:00	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:14	VLO	
Arsenic [7440-38-2] ^	**9.0**	J	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 14:53	JDH	
Barium [7440-39-3] ^	**266**		ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 14:53	JDH	
Beryllium [7440-41-7] ^	**0.35**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 14:53	JDH	
Cadmium [7440-43-9] ^	**0.12**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 14:53	JDH	J-01
Chromium [7440-47-3] ^	**12.1**		ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 14:53	JDH	
Cobalt [7440-48-4] ^	**23.5**		ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 14:53	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 14:53	JDH	
Lead [7439-92-1] ^	**8.8**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 14:53	JDH	
Nickel [7440-02-0] ^	**8.8**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 14:53	JDH	
Selenium [7782-49-2] ^	**9.2**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:53	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 14:53	JDH	
Thallium [7440-28-0] ^	**0.121**	J	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:14	VLO	
Vanadium [7440-62-2] ^	0.7	U	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 14:53	JDH	
Zinc [7440-66-6] ^	**14.5**	B	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:53	JDH	J-01

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Description: 5503-MW17
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-09
Sampled: 04/21/09 11:00
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 18:33	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/29/09 18:33	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/29/09 18:33	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/29/09 18:33	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/09 18:33	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/29/09 18:33	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/09 18:33	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/09 18:33	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/09 18:33	JKG	
Acetone [67-64-1] ^	**19**	J	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/09 18:33	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/29/09 18:33	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/29/09 18:33	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/29/09 18:33	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/29/09 18:33	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/09 18:33	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/29/09 18:33	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/29/09 18:33	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/29/09 18:33	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/29/09 18:33	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/29/09 18:33	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/29/09 18:33	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/29/09 18:33	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/29/09 18:33	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/29/09 18:33	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/09 18:33	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 18:33	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/29/09 18:33	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/29/09 18:33	JKG	

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Description:	5503-MW17	**Lab Sample ID:**	C904408-09	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 11:00	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 18:33	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9D25003*	*EPA 8260B*	*04/29/09 18:33*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*85 %*	*68-117*	*9D25003*	*EPA 8260B*	*04/29/09 18:33*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*9D25003*	*EPA 8260B*	*04/29/09 18:33*	*JKG*	

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Description:	5503-MW17	**Lab Sample ID:**	C904408-09	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 11:00	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:25	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 14:55	JDH	
Barium [7440-39-3] ^	**43.4**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 14:55	JDH	
Beryllium [7440-41-7] ^	**0.12**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 14:55	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 14:55	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 14:55	JDH	
Cobalt [7440-48-4] ^	**2.9**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 14:55	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 14:55	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 14:55	JDH	
Nickel [7440-02-0] ^	**2.7**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 14:55	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:55	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 14:55	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:25	VLO	
Vanadium [7440-62-2] ^	0.7	U	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 14:55	JDH	
Zinc [7440-66-6] ^	**7.1**	JB	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:55	JDH	J-01

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
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-10
Sampled: 04/21/09 09:15
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 19:03	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/29/09 19:03	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/29/09 19:03	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/29/09 19:03	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/09 19:03	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/29/09 19:03	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/09 19:03	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/09 19:03	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/09 19:03	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/09 19:03	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/29/09 19:03	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/29/09 19:03	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/29/09 19:03	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/29/09 19:03	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/09 19:03	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/29/09 19:03	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/29/09 19:03	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/29/09 19:03	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/29/09 19:03	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/29/09 19:03	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/29/09 19:03	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/29/09 19:03	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/29/09 19:03	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/29/09 19:03	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/09 19:03	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 19:03	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/29/09 19:03	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/29/09 19:03	JKG	

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Description:	5503-MW18	**Lab Sample ID:**	C904408-10	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:15	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 19:03	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*9D25003*	*EPA 8260B*	*04/29/09 19:03*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*9D25003*	*EPA 8260B*	*04/29/09 19:03*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*69-110*	*9D25003*	*EPA 8260B*	*04/29/09 19:03*	*JKG*	

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Description:	5503-MW18	**Lab Sample ID:**	C904408-10	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:15	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:28	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 14:58	JDH	
Barium [7440-39-3] ^	**64.8**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 14:58	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 14:58	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 14:58	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 14:58	JDH	
Cobalt [7440-48-4] ^	**1.3**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 14:58	JDH	
Copper [7440-50-8] ^	**1.06**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 14:58	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 14:58	JDH	
Nickel [7440-02-0] ^	**2.2**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 14:58	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:58	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 14:58	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:28	VLO	
Vanadium [7440-62-2] ^	**0.8**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 14:58	JDH	
Zinc [7440-66-6] ^	**4.8**	JB	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 14:58	JDH	J-01

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Description: 5503-MW19
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-11
Sampled: 04/21/09 09:25
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 19:33	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/29/09 19:33	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
1,1-Dichloroethane [75-34-3] ^	**6.1**		ug/L	1	0.33	1.0	5	EPA 8260B	04/29/09 19:33	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/29/09 19:33	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/29/09 19:33	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/29/09 19:33	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/29/09 19:33	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/29/09 19:33	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/29/09 19:33	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/29/09 19:33	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/29/09 19:33	JKG	
Benzene [71-43-2] ^	**0.45**	J	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/29/09 19:33	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/29/09 19:33	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/29/09 19:33	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/29/09 19:33	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/29/09 19:33	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/29/09 19:33	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/29/09 19:33	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.41**	J	ug/L	1	0.36	1.0	5	EPA 8260B	04/29/09 19:33	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/29/09 19:33	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/29/09 19:33	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/29/09 19:33	JKG	
Methylene chloride [75-09-2] ^	**1.2**	J	ug/L	1	0.53	2.0	1	EPA 8260B	04/29/09 19:33	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
Tetrachloroethene [127-18-4] ^	**1.7**		ug/L	1	0.36	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/29/09 19:33	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/29/09 19:33	JKG	
Trichloroethene [79-01-6] ^	**0.88**	J	ug/L	1	0.38	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
Trichlorofluoromethane [75-69-4] ^	**0.59**	J	ug/L	1	0.28	1.0	1	EPA 8260B	04/29/09 19:33	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/29/09 19:33	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/29/09 19:33	JKG	

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Description:	5503-MW19	**Lab Sample ID:**	C904408-11	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:25	**Work Order:**	C904408
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] ^	**0.41**	J	ug/L	1	0.40	1.0	5	EPA 8260B	04/29/09 19:33	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*9D25003*	*EPA 8260B*	*04/29/09 19:33*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*9D25003*	*EPA 8260B*	*04/29/09 19:33*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*9D25003*	*EPA 8260B*	*04/29/09 19:33*	*JKG*	

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Description:	5503-MW19	**Lab Sample ID:**	C904408-11	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:25	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:32	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 15:00	JDH	
Barium [7440-39-3] ^	**26.1**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 15:00	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 15:00	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 15:00	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 15:00	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 15:00	JDH	
Copper [7440-50-8] ^	**1.37**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 15:00	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 15:00	JDH	
Nickel [7440-02-0] ^	**0.6**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 15:00	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:00	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 15:00	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:32	VLO	
Vanadium [7440-62-2] ^	**2.3**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 15:00	JDH	
Zinc [7440-66-6] ^	**10.1**	B	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:00	JDH	J-01

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
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-12
Sampled: 04/21/09 09:08
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 01:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 01:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
1,1-Dichloroethane [75-34-3] ^	**2.5**	J	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 01:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 01:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 01:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 01:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 01:32	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 01:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 01:32	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 01:32	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 01:32	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 01:32	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 01:32	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 01:32	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 01:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 01:32	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 01:32	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 01:32	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 01:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 01:32	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 01:32	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 01:32	JKG	
Methylene chloride [75-09-2] ^	**0.56**	J	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 01:32	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 01:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 01:32	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 01:32	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 01:32	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 01:32	JKG	

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Description:	5503-MW20	**Lab Sample ID:**	C904408-12	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:08	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 01:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9D29022*	*EPA 8260B*	*04/30/09 01:32*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*85 %*	*68-117*	*9D29022*	*EPA 8260B*	*04/30/09 01:32*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*93 %*	*69-110*	*9D29022*	*EPA 8260B*	*04/30/09 01:32*	*JKG*	

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

Lab Sample ID: C904408-12
Sampled: 04/21/09 09:08
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:35	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 15:02	JDH	
Barium [7440-39-3] ^	**46.8**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 15:02	JDH	
Beryllium [7440-41-7] ^	**0.12**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 15:02	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 15:02	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 15:02	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 15:02	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 15:02	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 15:02	JDH	
Nickel [7440-02-0] ^	**0.8**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 15:02	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:02	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 15:02	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:35	VLO	
Vanadium [7440-62-2] ^	**0.7**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 15:02	JDH	
Zinc [7440-66-6] ^	**28.6**	B	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:02	JDH	J-01

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Description: 5503-MW21
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-13
Sampled: 04/21/09 10:20
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 02:02	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 02:02	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 02:02	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 02:02	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 02:02	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 02:02	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 02:02	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 02:02	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 02:02	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 02:02	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 02:02	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 02:02	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 02:02	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 02:02	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 02:02	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 02:02	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 02:02	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 02:02	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 02:02	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 02:02	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 02:02	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 02:02	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 02:02	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 02:02	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 02:02	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 02:02	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 02:02	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 02:02	JKG	

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Description:	5503-MW21	**Lab Sample ID:**	C904408-13	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 10:20	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 02:02	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*51-122*	*9D29022*	*EPA 8260B*	*04/30/09 02:02*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*9D29022*	*EPA 8260B*	*04/30/09 02:02*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*9D29022*	*EPA 8260B*	*04/30/09 02:02*	*JKG*	

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Description:	5503-MW21	**Lab Sample ID:**	C904408-13	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 10:20	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:39	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 15:05	JDH	
Barium [7440-39-3] ^	**28.9**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 15:05	JDH	
Beryllium [7440-41-7] ^	**0.23**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 15:05	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 15:05	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 15:05	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 15:05	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 15:05	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 15:05	JDH	
Nickel [7440-02-0] ^	**0.6**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 15:05	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:05	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 15:05	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:39	VLO	
Vanadium [7440-62-2] ^	**1.6**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 15:05	JDH	
Zinc [7440-66-6] ^	**5.5**	JB	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:05	JDH	J-01

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
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-14
Sampled: 04/21/09 11:15
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 02:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 02:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 02:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 02:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 02:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 02:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 02:32	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 02:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 02:32	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 02:32	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 02:32	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 02:32	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 02:32	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 02:32	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 02:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 02:32	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 02:32	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 02:32	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 02:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 02:32	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 02:32	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 02:32	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 02:32	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 02:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 02:32	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 02:32	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 02:32	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 02:32	JKG	

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Description:	5503-MW24	**Lab Sample ID:**	C904408-14	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 11:15	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 02:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*9D29022*	*EPA 8260B*	*04/30/09 02:32*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*9D29022*	*EPA 8260B*	*04/30/09 02:32*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*9D29022*	*EPA 8260B*	*04/30/09 02:32*	*JKG*	

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Description: 5503-MW24
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-14
Sampled: 04/21/09 11:15
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:42	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 15:07	JDH	
Barium [7440-39-3] ^	**43.3**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 15:07	JDH	
Beryllium [7440-41-7] ^	**0.38**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 15:07	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 15:07	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 15:07	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 15:07	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 15:07	JDH	
Lead [7439-92-1] ^	**2.0**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 15:07	JDH	
Nickel [7440-02-0] ^	0.6	U	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 15:07	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:07	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 15:07	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:42	VLO	
Vanadium [7440-62-2] ^	0.7	U	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 15:07	JDH	
Zinc [7440-66-6] ^	**8.6**	JB	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:07	JDH	J-01

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
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-15
Sampled: 04/22/09 09:45
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 03:02	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 03:02	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 03:02	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 03:02	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 03:02	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 03:02	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 03:02	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 03:02	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 03:02	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 03:02	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 03:02	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 03:02	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 03:02	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 03:02	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 03:02	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 03:02	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 03:02	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 03:02	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 03:02	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 03:02	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 03:02	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 03:02	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 03:02	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 03:02	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 03:02	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 03:02	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 03:02	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 03:02	JKG	

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Description:	5503-MW25	**Lab Sample ID:**	C904408-15	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 09:45	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 03:02	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*9D29022*	*EPA 8260B*	*04/30/09 03:02*	*JKG*	
Dibromofluoromethane	*41*	*1*	*50.0*	*83 %*	*68-117*	*9D29022*	*EPA 8260B*	*04/30/09 03:02*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*9D29022*	*EPA 8260B*	*04/30/09 03:02*	*JKG*	

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Description:	5503-MW25	**Lab Sample ID:**	C904408-15	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 09:45	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:45	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 15:22	JDH	
Barium [7440-39-3] ^	**137**		ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 15:22	JDH	
Beryllium [7440-41-7] ^	**0.33**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 15:22	JDH	
Cadmium [7440-43-9] ^	**0.13**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 15:22	JDH	J-01
Chromium [7440-47-3] ^	**4.5**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 15:22	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 15:22	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 15:22	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 15:22	JDH	
Nickel [7440-02-0] ^	**1.4**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 15:22	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:22	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 15:22	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:45	VLO	
Vanadium [7440-62-2] ^	**1.1**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 15:22	JDH	
Zinc [7440-66-6] ^	**14.6**	B	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:22	JDH	J-01

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: C904408-16
Sampled: 04/22/09 09:50
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 03:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 03:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 03:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 03:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 03:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 03:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 03:32	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 03:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 03:32	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 03:32	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 03:32	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 03:32	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 03:32	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 03:32	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 03:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 03:32	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 03:32	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 03:32	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 03:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 03:32	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 03:32	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 03:32	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 03:32	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 03:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 03:32	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 03:32	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 03:32	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 03:32	JKG	

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Description:	5503-MW25A	**Lab Sample ID:**	C904408-16	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 09:50	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 03:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*9D29022*	*EPA 8260B*	*04/30/09 03:32*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*9D29022*	*EPA 8260B*	*04/30/09 03:32*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*9D29022*	*EPA 8260B*	*04/30/09 03:32*	*JKG*	

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Description:	5503-MW25A	**Lab Sample ID:**	C904408-16	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 09:50	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	**1.00**	J	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:49	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 15:25	JDH	
Barium [7440-39-3] ^	**34.5**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 15:25	JDH	
Beryllium [7440-41-7] ^	**0.10**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 15:25	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 15:25	JDH	
Chromium [7440-47-3] ^	**4.5**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 15:25	JDH	
Cobalt [7440-48-4] ^	**1.0**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 15:25	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 15:25	JDH	
Lead [7439-92-1] ^	**2.2**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 15:25	JDH	
Nickel [7440-02-0] ^	0.6	U	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 15:25	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:25	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 15:25	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:49	VLO	
Vanadium [7440-62-2] ^	**3.8**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 15:25	JDH	
Zinc [7440-66-6] ^	**7.9**	JB	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:25	JDH	J-01

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: C904408-17
Sampled: 04/21/09 09:55
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 04:01	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 04:01	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 04:01	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 04:01	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 04:01	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 04:01	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 04:01	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 04:01	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 04:01	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 04:01	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 04:01	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 04:01	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 04:01	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 04:01	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 04:01	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 04:01	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 04:01	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 04:01	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 04:01	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 04:01	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 04:01	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 04:01	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 04:01	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 04:01	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 04:01	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 04:01	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 04:01	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 04:01	JKG	

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Description:	5503-MW32R	**Lab Sample ID:**	C904408-17	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:55	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 04:01	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*9D29022*	*EPA 8260B*	*04/30/09 04:01*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*9D29022*	*EPA 8260B*	*04/30/09 04:01*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*9D29022*	*EPA 8260B*	*04/30/09 04:01*	*JKG*	

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Description:	5503-MW32R	**Lab Sample ID:**	C904408-17	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:55	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:52	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 15:27	JDH	
Barium [7440-39-3] ^	**34.1**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 15:27	JDH	
Beryllium [7440-41-7] ^	**0.51**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 15:27	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 15:27	JDH	
Chromium [7440-47-3] ^	**1.0**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 15:27	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 15:27	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 15:27	JDH	
Lead [7439-92-1] ^	**5.1**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 15:27	JDH	
Nickel [7440-02-0] ^	**1.3**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 15:27	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:27	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 15:27	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:52	VLO	
Vanadium [7440-62-2] ^	**4.7**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 15:27	JDH	
Zinc [7440-66-6] ^	**14.1**	B	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:27	JDH	J-01

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
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-18
Sampled: 04/21/09 09:40
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 04:31	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 04:31	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 04:31	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 04:31	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 04:31	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 04:31	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 04:31	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 04:31	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 04:31	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 04:31	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 04:31	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 04:31	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 04:31	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 04:31	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 04:31	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 04:31	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 04:31	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 04:31	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 04:31	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 04:31	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 04:31	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 04:31	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 04:31	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 04:31	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 04:31	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 04:31	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 04:31	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 04:31	JKG	

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Description:	5503-MW33	**Lab Sample ID:**	C904408-18	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:40	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 04:31	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9D29022*	*EPA 8260B*	*04/30/09 04:31*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*9D29022*	*EPA 8260B*	*04/30/09 04:31*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*9D29022*	*EPA 8260B*	*04/30/09 04:31*	*JKG*	

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Description:	5503-MW33	**Lab Sample ID:**	C904408-18	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:40	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 13:56	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 15:29	JDH	
Barium [7440-39-3] ^	**53.2**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 15:29	JDH	
Beryllium [7440-41-7] ^	**0.39**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 15:29	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 15:29	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 15:29	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 15:29	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 15:29	JDH	
Lead [7439-92-1] ^	**1.8**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 15:29	JDH	
Nickel [7440-02-0] ^	**1.0**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 15:29	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:29	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 15:29	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 13:56	VLO	
Vanadium [7440-62-2] ^	**1.3**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 15:29	JDH	
Zinc [7440-66-6] ^	**18.2**	B	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:29	JDH	J-01

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: C904408-19
Sampled: 04/21/09 09:45
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 05:01	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 05:01	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 05:01	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 05:01	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 05:01	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 05:01	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 05:01	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 05:01	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 05:01	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 05:01	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 05:01	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 05:01	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 05:01	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 05:01	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 05:01	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 05:01	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 05:01	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 05:01	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 05:01	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 05:01	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 05:01	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 05:01	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 05:01	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 05:01	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 05:01	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 05:01	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 05:01	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 05:01	JKG	

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Description:	5503-MW33A	**Lab Sample ID:**	C904408-19	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 09:45	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 05:01	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*51-122*	*9D29022*	*EPA 8260B*	*04/30/09 05:01*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*83 %*	*68-117*	*9D29022*	*EPA 8260B*	*04/30/09 05:01*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*69-110*	*9D29022*	*EPA 8260B*	*04/30/09 05:01*	*JKG*	

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

Lab Sample ID: C904408-19
Sampled: 04/21/09 09:45
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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
Antimony [7440-36-0] ^	**0.75**	J	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 14:06	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 15:31	JDH	
Barium [7440-39-3] ^	**10.7**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 15:31	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 15:31	JDH	
Cadmium [7440-43-9] ^	**0.13**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 15:31	JDH	J-01
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 15:31	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 15:31	JDH	
Copper [7440-50-8] ^	**1.02**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 15:31	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 15:31	JDH	
Nickel [7440-02-0] ^	0.6	U	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 15:31	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:31	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 15:31	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 14:06	VLO	
Vanadium [7440-62-2] ^	**2.0**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 15:31	JDH	
Zinc [7440-66-6] ^	**21.4**	B	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:31	JDH	J-01

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
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-20
Sampled: 04/22/09 09:30
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 05:31	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 05:31	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 05:31	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 05:31	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 05:31	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 05:31	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 05:31	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 05:31	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 05:31	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 05:31	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 05:31	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 05:31	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 05:31	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 05:31	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 05:31	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 05:31	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 05:31	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 05:31	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 05:31	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 05:31	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 05:31	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 05:31	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 05:31	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 05:31	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 05:31	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 05:31	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 05:31	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 05:31	JKG	

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Description:	5503-MW34	**Lab Sample ID:**	C904408-20	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 09:30	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 05:31	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9D29022*	*EPA 8260B*	*04/30/09 05:31*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*85 %*	*68-117*	*9D29022*	*EPA 8260B*	*04/30/09 05:31*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*9D29022*	*EPA 8260B*	*04/30/09 05:31*	*JKG*	

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Description:	5503-MW34	**Lab Sample ID:**	C904408-20	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 09:30	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 12:26	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/24/09 15:34	JDH	
Barium [7440-39-3] ^	**152**		ug/L	1	4.20	10.0	100	EPA 6010B	04/24/09 15:34	JDH	
Beryllium [7440-41-7] ^	**0.90**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/24/09 15:34	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/24/09 15:34	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/24/09 15:34	JDH	
Cobalt [7440-48-4] ^	**3.7**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/24/09 15:34	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/24/09 15:34	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/24/09 15:34	JDH	
Nickel [7440-02-0] ^	**1.4**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/24/09 15:34	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:34	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/24/09 15:34	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 12:26	VLO	
Vanadium [7440-62-2] ^	**1.9**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/24/09 15:34	JDH	
Zinc [7440-66-6] ^	**12.2**	B	ug/L	1	3.4	10.0	10	EPA 6010B	04/24/09 15:34	JDH	J-01

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
Matrix: Ground Water
Project: Lincoln County LF - App Is

Lab Sample ID: C904408-21
Sampled: 04/22/09 09:35
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 06:00	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 06:00	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 06:00	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 06:00	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 06:00	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 06:00	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 06:00	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 06:00	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 06:00	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 06:00	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 06:00	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 06:00	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 06:00	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 06:00	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 06:00	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 06:00	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 06:00	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 06:00	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 06:00	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 06:00	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 06:00	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 06:00	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 06:00	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 06:00	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 06:00	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 06:00	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 06:00	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 06:00	JKG	

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Description:	5503-MW35	**Lab Sample ID:**	C904408-21	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 09:35	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 06:00	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*9D29022*	*EPA 8260B*	*04/30/09 06:00*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*85 %*	*68-117*	*9D29022*	*EPA 8260B*	*04/30/09 06:00*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*9D29022*	*EPA 8260B*	*04/30/09 06:00*	*JKG*	

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Description:	5503-MW35	**Lab Sample ID:**	C904408-21	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 09:35	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 12:12	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/27/09 12:09	JDH	
Barium [7440-39-3] ^	**51.5**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/27/09 12:09	JDH	
Beryllium [7440-41-7] ^	**0.25**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/27/09 12:09	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/27/09 12:09	JDH	
Chromium [7440-47-3] ^	**1.5**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/27/09 12:09	JDH	
Cobalt [7440-48-4] ^	**1.9**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/27/09 12:09	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/27/09 12:09	JDH	
Lead [7439-92-1] ^	**1.9**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/27/09 12:09	JDH	
Nickel [7440-02-0] ^	**1.8**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/27/09 12:09	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/27/09 12:09	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/27/09 12:09	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 12:12	VLO	
Vanadium [7440-62-2] ^	**4.4**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/27/09 12:09	JDH	
Zinc [7440-66-6] ^	**11.0**		ug/L	1	3.4	10.0	10	EPA 6010B	04/27/09 12:09	JDH	

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

Lab Sample ID: C904408-22
Sampled: 04/22/09 09:40
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 06:30	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 06:30	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 06:30	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 06:30	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 06:30	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 06:30	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 06:30	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 06:30	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 06:30	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 06:30	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 06:30	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 06:30	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 06:30	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 06:30	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 06:30	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 06:30	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 06:30	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 06:30	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 06:30	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 06:30	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 06:30	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 06:30	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 06:30	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 06:30	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 06:30	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 06:30	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 06:30	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 06:30	JKG	

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Description:	5503-MW35A	**Lab Sample ID:**	C904408-22	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 09:40	**Work Order:**	C904408
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 06:30	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*51-122*	*9D29022*	*EPA 8260B*	*04/30/09 06:30*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*9D29022*	*EPA 8260B*	*04/30/09 06:30*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*9D29022*	*EPA 8260B*	*04/30/09 06:30*	*JKG*	

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Description:	5503-MW35A	**Lab Sample ID:**	C904408-22	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 09:40	**Work Order:**	C904408
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 12:15	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/27/09 12:11	JDH	
Barium [7440-39-3] ^	**44.5**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/27/09 12:11	JDH	
Beryllium [7440-41-7] ^	**0.11**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/27/09 12:11	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/27/09 12:11	JDH	
Chromium [7440-47-3] ^	**2.6**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/27/09 12:11	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/27/09 12:11	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/27/09 12:11	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/27/09 12:11	JDH	
Nickel [7440-02-0] ^	0.6	U	ug/L	1	0.6	10.0	50	EPA 6010B	04/27/09 12:11	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/27/09 12:11	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/27/09 12:11	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 12:15	VLO	
Vanadium [7440-62-2] ^	**3.2**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/27/09 12:11	JDH	
Zinc [7440-66-6] ^	**8.1**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/27/09 12:11	JDH	

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

Lab Sample ID: C904408-23
Sampled: 04/21/09 08:55
Sampled By: ENCO

Received: 04/23/09 10:45
Work Order: C904408

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 07:00	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 07:00	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 07:00	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 07:00	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 07:00	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 07:00	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 07:00	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 07:00	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 07:00	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 07:00	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 07:00	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 07:00	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 07:00	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 07:00	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 07:00	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 07:00	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 07:00	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 07:00	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 07:00	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 07:00	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 07:00	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 07:00	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 07:00	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 07:00	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 07:00	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 07:00	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 07:00	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 07:00	JKG	

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Description:	5503-Trip Blank	**Lab Sample ID:**	C904408-23	**Received:**	04/23/09 10:45
Matrix:	Water	**Sampled:**	04/21/09 08:55	**Work Order:**	C904408
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
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 07:00	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*9D29022*	*EPA 8260B*	*04/30/09 07:00*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*9D29022*	*EPA 8260B*	*04/30/09 07:00*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*9D29022*	*EPA 8260B*	*04/30/09 07:00*	*JKG*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D25003 - EPA 5030B_MS

Blank (9D25003-BLK1) Prepared: 04/25/2009 11:30 Analyzed: 04/29/2009 10:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	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	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	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	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	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 9D25003 - EPA 5030B_MS

Blank (9D25003-BLK1) Continued Prepared: 04/25/2009 11:30 Analyzed: 04/29/2009 10:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*101*	*69-110*			

LCS (9D25003-BS1) Prepared: 04/25/2009 11:30 Analyzed: 04/29/2009 10:31

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		95	75-133			
Benzene	20		1.0	ug/L	20.0		102	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		107	83-117			
Toluene	21		1.0	ug/L	20.0		105	71-118			
Trichloroethene	22		1.0	ug/L	20.0		110	75-115			

Matrix Spike (9D25003-MS1) Prepared: 04/25/2009 11:30 Analyzed: 04/29/2009 11:01

Source: C904594-25

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	0.24 U	96	75-133			
Benzene	20		1.0	ug/L	20.0	0.20 U	102	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	105	83-117			
Toluene	21		1.0	ug/L	20.0	0.27 U	103	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	108	75-115			

Matrix Spike Dup (9D25003-MSD1) Prepared: 04/25/2009 11:30 Analyzed: 04/29/2009 11:31

Source: C904594-25

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	0.24 U	93	75-133	2	20	
Benzene	20		1.0	ug/L	20.0	0.20 U	101	81-134	1	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	107	83-117	2	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	99	71-118	4	17	
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	108	75-115	0.5	18	

Batch 9D29022 - EPA 5030B_MS

Blank (9D29022-BLK1) Prepared: 04/29/2009 12:56 Analyzed: 04/29/2009 22:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	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	0.27	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D29022 - EPA 5030B_MS

Blank (9D29022-BLK1) Continued Prepared: 04/29/2009 12:56 Analyzed: 04/29/2009 22:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	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	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*84*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*95*	*69-110*			

LCS (9D29022-BS1) Prepared: 04/29/2009 12:56 Analyzed: 04/29/2009 22:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0		85	75-133			
Benzene	19		1.0	ug/L	20.0		95	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		105	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D29022 - EPA 5030B_MS

LCS (9D29022-BS1) Continued Prepared: 04/29/2009 12:56 Analyzed: 04/29/2009 22:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	20		1.0	ug/L	20.0		102	75-115			

Matrix Spike (9D29022-MS1) Prepared: 04/29/2009 12:56 Analyzed: 04/29/2009 23:03

Source: C904790-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.24 U	87	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	96	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	107	83-117			
Toluene	20		1.0	ug/L	20.0	0.27 U	101	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	102	75-115			

Matrix Spike Dup (9D29022-MSD1) Prepared: 04/29/2009 12:56 Analyzed: 04/29/2009 23:33

Source: C904790-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.24 U	88	75-133	2	20	
Benzene	18		1.0	ug/L	20.0	0.20 U	91	81-134	6	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	106	83-117	2	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	98	71-118	3	17	
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	102	75-115	0.2	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D23026 - EPA 245.1

Blank (9D23026-BLK1) Prepared: 04/23/2009 11:24 Analyzed: 04/23/2009 16:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (9D23026-BS1) Prepared: 04/23/2009 11:24 Analyzed: 04/23/2009 16:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.10		0.20	ug/L	5.00		102	85-115			

Matrix Spike (9D23026-MS1) Prepared: 04/23/2009 11:24 Analyzed: 04/23/2009 16:57

Source: C904691-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.22		0.20	ug/L	5.00	0.11 U	104	85-115			

Matrix Spike Dup (9D23026-MSD1) Prepared: 04/23/2009 11:24 Analyzed: 04/23/2009 17:00

Source: C904691-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.71		0.20	ug/L	5.00	0.11 U	94	85-115	10	15	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D23026 - EPA 245.1

Post Spike (9D23026-PS1) Prepared: 04/23/2009 11:24 Analyzed: 04/23/2009 17:03

Source: C904691-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.87		0.20	ug/L	5.00	-0.09	79	75-125			

Batch 9D23037 - EPA 3005A

Blank (9D23037-BLK1) Prepared: 04/23/2009 13:30 Analyzed: 04/24/2009 14:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	4.20	U	10.0	ug/L							
Beryllium	0.08	U	1.00	ug/L							
Cadmium	**0.13**	**J**	1.00	ug/L							
Chromium	0.7	U	10.0	ug/L							
Cobalt	0.6	U	10.0	ug/L							
Copper	0.81	U	10.0	ug/L							
Iron	31	U	50	ug/L							
Lead	1.6	U	10.0	ug/L							
Manganese	1.1	U	10.0	ug/L							
Nickel	0.6	U	10.0	ug/L							
Selenium	3.4	U	10.0	ug/L							
Silver	1.0	U	10.0	ug/L							
Vanadium	0.7	U	10.0	ug/L							
Zinc	**3.5**	**J**	10.0	ug/L							

LCS (9D23037-BS1) Prepared: 04/23/2009 13:30 Analyzed: 04/24/2009 14:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1100		10.0	ug/L	1000		110	80-120			
Barium	1060		10.0	ug/L	1000		106	80-120			
Beryllium	543		1.00	ug/L	500		109	80-120			
Cadmium	515	B	1.00	ug/L	500		103	80-120			
Chromium	1050		10.0	ug/L	1000		105	80-120			
Cobalt	1030		10.0	ug/L	1000		103	80-120			
Copper	526		10.0	ug/L	500		105	80-120			
Iron	10700		50	ug/L	10000		107	80-120			
Lead	1100		10.0	ug/L	1000		110	80-120			
Manganese	523		10.0	ug/L	500		105	80-120			
Nickel	1070		10.0	ug/L	1000		107	80-120			
Selenium	1140		10.0	ug/L	1000		114	80-120			
Silver	108		10.0	ug/L	100		108	80-120			
Vanadium	536		10.0	ug/L	500		107	80-120			
Zinc	1070	B	10.0	ug/L	1000		107	80-120			

Matrix Spike (9D23037-MS1) Prepared: 04/23/2009 13:30 Analyzed: 04/24/2009 14:23

Source: C904408-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D23037 - EPA 3005A

Matrix Spike (9D23037-MS1) Continued Prepared: 04/23/2009 13:30 Analyzed: 04/24/2009 14:23

Source: C904408-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1030		10.0	ug/L	1000	2.8 U	103	75-125			
Barium	1070		10.0	ug/L	1000	29.3	104	75-125			
Beryllium	534		1.00	ug/L	500	0.27	107	75-125			
Cadmium	508	B	1.00	ug/L	500	0.15	102	75-125			
Chromium	1060		10.0	ug/L	1000	2.9	105	75-125			
Cobalt	1020		10.0	ug/L	1000	0.6 U	102	75-125			
Copper	525		10.0	ug/L	500	0.88	105	75-125			
Iron	11300		50	ug/L	10000	778	105	75-125			
Lead	1030		10.0	ug/L	1000	2.2	103	75-125			
Manganese	534		10.0	ug/L	500	12.7	104	75-125			
Nickel	1050		10.0	ug/L	1000	3.1	105	75-125			
Selenium	1080		10.0	ug/L	1000	3.4 U	108	75-125			
Silver	110		10.0	ug/L	100	1.0 U	110	75-125			
Vanadium	535		10.0	ug/L	500	2.4	107	75-125			
Zinc	1060	B	10.0	ug/L	1000	12.7	105	75-125			

Matrix Spike Dup (9D23037-MSD1) Prepared: 04/23/2009 13:30 Analyzed: 04/24/2009 14:25

Source: C904408-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1070		10.0	ug/L	1000	2.8 U	107	75-125	4	25	
Barium	1110		10.0	ug/L	1000	29.3	108	75-125	3	25	
Beryllium	542		1.00	ug/L	500	0.27	108	75-125	2	25	
Cadmium	525	B	1.00	ug/L	500	0.15	105	75-125	3	25	
Chromium	1090		10.0	ug/L	1000	2.9	109	75-125	3	25	
Cobalt	1050		10.0	ug/L	1000	0.6 U	105	75-125	3	25	
Copper	543		10.0	ug/L	500	0.88	108	75-125	3	25	
Iron	11700		50	ug/L	10000	778	109	75-125	3	25	
Lead	1070		10.0	ug/L	1000	2.2	107	75-125	4	25	
Manganese	552		10.0	ug/L	500	12.7	108	75-125	3	25	
Nickel	1090		10.0	ug/L	1000	3.1	109	75-125	3	25	
Selenium	1130		10.0	ug/L	1000	3.4 U	113	75-125	5	25	
Silver	112		10.0	ug/L	100	1.0 U	112	75-125	2	25	
Vanadium	552		10.0	ug/L	500	2.4	110	75-125	3	25	
Zinc	1100	B	10.0	ug/L	1000	12.7	109	75-125	3	25	

Post Spike (9D23037-PS1) Prepared: 04/23/2009 13:30 Analyzed: 04/24/2009 14:28

Source: C904408-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.1		0.01	mg/L	1.00	-0.001	106	75-125			
Barium	1.08		0.01	mg/L	1.00	0.03	106	75-125			
Beryllium	0.54		0.001	mg/L	0.500	0.0003	108	75-125			
Cadmium	0.51	B	0.001	mg/L	0.500	0.0002	102	75-125			
Chromium	1.1		0.01	mg/L	1.00	0.003	105	75-125			
Cobalt	1.0		0.01	mg/L	1.00	0.0005	103	75-125			
Copper	0.52		0.01	mg/L	0.500	0.0009	105	75-125			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D23037 - EPA 3005A

Post Spike (9D23037-PS1) Continued Prepared: 04/23/2009 13:30 Analyzed: 04/24/2009 14:28

Source: C904408-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron	11		0.05	mg/L	10.0	0.8	106	75-125			
Lead	1.1		0.01	mg/L	1.00	0.002	106	75-125			
Manganese	0.5		0.01	mg/L	0.500	0.01	104	75-125			
Nickel	1.1		0.01	mg/L	1.00	0.003	107	75-125			
Selenium	1.1		0.01	mg/L	1.00	-0.004	111	75-125			
Silver	0.1		0.01	mg/L	0.100	-0.0006	110	75-125			
Vanadium	0.5		0.01	mg/L	0.500	0.002	106	75-125			
Zinc	1.1	B	0.01	mg/L	1.00	0.01	106	75-125			

Batch 9D23038 - EPA 3005A

Blank (9D23038-BLK1) Prepared: 04/23/2009 13:32 Analyzed: 04/28/2009 12:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.68	U	2.00	ug/L							
Thallium	0.036	U	1.00	ug/L							

LCS (9D23038-BS1) Prepared: 04/23/2009 13:32 Analyzed: 04/28/2009 12:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.4		2.00	ug/L	25.0		106	85-115			
Thallium	25.5		1.00	ug/L	25.0		102	85-115			

Matrix Spike (9D23038-MS1) Prepared: 04/23/2009 13:32 Analyzed: 04/28/2009 12:29

Source: C904408-20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	23.8		2.00	ug/L	25.0	0.68 U	95	85-115			
Thallium	25.6		1.00	ug/L	25.0	0.036 U	102	85-115			

Matrix Spike Dup (9D23038-MSD1) Prepared: 04/23/2009 13:32 Analyzed: 04/28/2009 12:33

Source: C904408-20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.0		2.00	ug/L	25.0	0.68 U	96	85-115	0.8	20	
Thallium	25.4		1.00	ug/L	25.0	0.036 U	101	85-115	0.9	20	

Post Spike (9D23038-PS1) Prepared: 04/23/2009 13:32 Analyzed: 04/28/2009 12:43

Source: C904408-20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.03		0.002	mg/L	0.0250	-0.00004	105	75-125			
Thallium	0.026		0.001	mg/L	0.0250	-0.0005	104	75-125			

Batch 9D23045 - EPA 3005A

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D23045 - EPA 3005A

Blank (9D23045-BLK1) Prepared: 04/23/2009 16:47 Analyzed: 04/27/2009 11:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	4.20	U	10.0	ug/L							
Beryllium	0.08	U	1.00	ug/L							
Cadmium	0.09	U	1.00	ug/L							
Chromium	0.7	U	10.0	ug/L							
Cobalt	0.6	U	10.0	ug/L							
Copper	0.81	U	10.0	ug/L							
Lead	1.6	U	10.0	ug/L							
Nickel	0.6	U	10.0	ug/L							
Selenium	3.4	U	10.0	ug/L							
Silver	1.0	U	10.0	ug/L							
Vanadium	0.7	U	10.0	ug/L							
Zinc	3.4	U	10.0	ug/L							

LCS (9D23045-BS1) Prepared: 04/23/2009 16:47 Analyzed: 04/27/2009 11:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1020		10.0	ug/L	1000		102	80-120			
Barium	1050		10.0	ug/L	1000		105	80-120			
Beryllium	531		1.00	ug/L	500		106	80-120			
Cadmium	516		1.00	ug/L	500		103	80-120			
Chromium	1070		10.0	ug/L	1000		107	80-120			
Cobalt	1020		10.0	ug/L	1000		102	80-120			
Copper	529		10.0	ug/L	500		106	80-120			
Lead	1040		10.0	ug/L	1000		104	80-120			
Nickel	1070		10.0	ug/L	1000		107	80-120			
Selenium	1080		10.0	ug/L	1000		108	80-120			
Silver	112		10.0	ug/L	100		112	80-120			
Vanadium	541		10.0	ug/L	500		108	80-120			
Zinc	1080		10.0	ug/L	1000		108	80-120			

Matrix Spike (9D23045-MS1) Prepared: 04/23/2009 16:47 Analyzed: 04/27/2009 11:08

Source: C904191-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1010		10.0	ug/L	1000	2.8 U	101	75-125			
Barium	1070		10.0	ug/L	1000	48.1	102	75-125			
Beryllium	530		1.00	ug/L	500	0.31	106	75-125			
Cadmium	502		1.00	ug/L	500	0.19	100	75-125			
Chromium	1060		10.0	ug/L	1000	21.9	104	75-125			
Cobalt	999		10.0	ug/L	1000	4.1	99	75-125			
Copper	518		10.0	ug/L	500	2.31	103	75-125			
Lead	1030		10.0	ug/L	1000	3.3	102	75-125			
Nickel	1060		10.0	ug/L	1000	17.0	104	75-125			
Selenium	1060		10.0	ug/L	1000	3.4 U	106	75-125			
Silver	109		10.0	ug/L	100	1.0 U	109	75-125			
Vanadium	529		10.0	ug/L	500	1.9	105	75-125			
Zinc	1090		10.0	ug/L	1000	33.8	105	75-125			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D23045 - EPA 3005A

Matrix Spike Dup (9D23045-MSD1) Prepared: 04/23/2009 16:47 Analyzed: 04/27/2009 11:11

Source: C904191-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1020		10.0	ug/L	1000	2.8 U	102	75-125	1	25	
Barium	1070		10.0	ug/L	1000	48.1	102	75-125	0.5	25	
Beryllium	535		1.00	ug/L	500	0.31	107	75-125	1	25	
Cadmium	504		1.00	ug/L	500	0.19	101	75-125	0.3	25	
Chromium	1070		10.0	ug/L	1000	21.9	105	75-125	0.4	25	
Cobalt	1000		10.0	ug/L	1000	4.1	100	75-125	0.2	25	
Copper	521		10.0	ug/L	500	2.31	104	75-125	0.6	25	
Lead	1040		10.0	ug/L	1000	3.3	103	75-125	1	25	
Nickel	1070		10.0	ug/L	1000	17.0	105	75-125	0.5	25	
Selenium	1070		10.0	ug/L	1000	3.4 U	107	75-125	0.8	25	
Silver	108		10.0	ug/L	100	1.0 U	108	75-125	1	25	
Vanadium	532		10.0	ug/L	500	1.9	106	75-125	0.5	25	
Zinc	1090		10.0	ug/L	1000	33.8	105	75-125	0.008	25	

Post Spike (9D23045-PS1) Prepared: 04/23/2009 16:47 Analyzed: 04/27/2009 11:13

Source: C904191-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.0		0.01	mg/L	1.00	0.002	100	75-125			
Barium	1.05		0.01	mg/L	1.00	0.05	100	75-125			
Beryllium	0.52		0.001	mg/L	0.500	0.0003	103	75-125			
Cadmium	0.49		0.001	mg/L	0.500	0.0002	98	75-125			
Chromium	1.0		0.01	mg/L	1.00	0.02	102	75-125			
Cobalt	1.0		0.01	mg/L	1.00	0.004	97	75-125			
Copper	0.51		0.01	mg/L	0.500	0.002	101	75-125			
Lead	1.0		0.01	mg/L	1.00	0.003	102	75-125			
Nickel	1.0		0.01	mg/L	1.00	0.02	102	75-125			
Selenium	1.1		0.01	mg/L	1.00	-0.003	106	75-125			
Silver	0.1		0.01	mg/L	0.100	0.0006	107	75-125			
Vanadium	0.5		0.01	mg/L	0.500	0.002	103	75-125			
Zinc	1.1		0.01	mg/L	1.00	0.03	103	75-125			

Batch 9D23047 - EPA 3005A

Blank (9D23047-BLK1) Prepared: 04/23/2009 17:01 Analyzed: 04/28/2009 10:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.68	U	2.00	ug/L							
Thallium	0.036	U	1.00	ug/L							

LCS (9D23047-BS1) Prepared: 04/23/2009 17:01 Analyzed: 04/28/2009 10:42

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	85-115			
Thallium	26.0		1.00	ug/L	25.0		104	85-115			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D23047 - EPA 3005A

Matrix Spike (9D23047-MS1) Prepared: 04/23/2009 17:01 Analyzed: 04/28/2009 10:49

Source: C904191-17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.8		2.00	ug/L	25.0	0.68 U	107	85-115			
Thallium	25.5		1.00	ug/L	25.0	0.036 U	102	85-115			

Matrix Spike Dup (9D23047-MSD1) Prepared: 04/23/2009 17:01 Analyzed: 04/28/2009 10:52

Source: C904191-17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.4		2.00	ug/L	25.0	0.68 U	106	85-115	1	20	
Thallium	25.7		1.00	ug/L	25.0	0.036 U	103	85-115	0.6	20	

Post Spike (9D23047-PS1) Prepared: 04/23/2009 17:01 Analyzed: 04/28/2009 10:56

Source: C904191-17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.03		0.002	mg/L	0.0250	-0.00004	106	75-125			
Thallium	0.026		0.001	mg/L	0.0250	-0.0006	105	75-125			

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.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 858-6945

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 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: ~~47789~~ 49080
Tel: (704) 523-4726 / Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Courtney Withers	Billing Contact: Accounts Payable
Sampler(s) Signature: Courtney R. Withers	Facility # (if required): 5503

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C904408

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,Hg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn							Sample Comments
	5503-MW1A	4/21/09	0855	G	GW	4	X	X								
	~~5503-MW8~~				~~GW~~	~~4~~	~~X~~		~~X~~							
	5503-MW9	4/21/09	1125	G	GW	4	X		X							
	5503-MW10R	4/21/09	1120	G	GW	4	X		X							
	5503-MW12	4/22/09	1000	G	GW	4	X		X							
	5503-MW13	4/21/09	1005	G	GW	4	X		X							
	5503-MW14	4/21/09	1010	G	GW	4	X		X							
	5503-MW15	4/21/09	0930	G	GW	4	X		X							
	5503-MW16R	4/21/09	0900	G	GW	4	X		X							
	5503-MW17	4/21/09	1100	G	GW	4	X		X							
	5503-MW18	4/21/09	0915	G	GW	4	X		X							
	5503-MW19	4/21/09	0925	G	GW	4	X		X							

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
[illegible]	4/15/09 1700	Courtney R. Withers	4/22/09 1400	Briana Gregory	4/23/09 10:45
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C490 C493 3.0°C C-490 1.5°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
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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: ~~47789~~ 49080
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Courtney Withers	Billing Contact: Accounts Payable
Sampler(s) Signature: Courtney R. Withers	Facility # (if required): 5503

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C904408

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,Hg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn								Sample Comments
	5503-MW20	4/21/09	0908	G	GW	4	X		X								
	5503-MW21	4/21/09	1020	G	GW	4	X		X								
	5503-MW24	4/21/09	1115	G	GW	4	X		X								
	5503-MW25	4/22/09	0945	G	GW	4	X		X								
	5503-MW25A	4/22/09	0950	G	GW	4	X		X								
	5503-MW32R	4/21/09	0955	G	GW	4	X		X								
	5503-MW33	4/21/09	0940	G	GW	4	X		X								
	5503-MW33A	4/21/09	0945	G	GW	4	X		X								
	5503-MW34	4/22/09	0930	G	GW	4	X		X								
	5503-MW35	4/22/09	0935	G	GW	4	X		X								
	5503-MW35A	4/22/09	0940	G	GW	4	X		X								
	5503-Trip Blank				WA	2	X										

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
[illegible]	4/15/09 1700	Courtney R. Withers	4/22/09 1400	Briana Gregory	4/23/09 10:45
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C490, C493 3.0°C C490 1.5°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.

Sample preservation verification

☒ Cary ☐ Jacksonville ☐ Orlando

Work order: C904408 Page: 1 of 1 Initials: BJG Date: 4/23/09

A check mark (✓) in any space under the appropriate column heading for the selected sample indicates that the pH met the required pH.
An asterisk (*) in any space under the appropriate column heading for the selected sample indicates that the pH was adjusted in the lab as described in the comments column.

Sample No	Metals	TPH	Ammonia	COD	Cyanide	TOC	Hardness	TKN/TON	Oil & grease	Phenolics	NOx	Extractables	Sulfide	FL-PRO	COMMENTS
pH →	<2	<2	<2	<2	>12	<2	<2	<2	<2	<2	<2	5-9	>9	<2	
- 01	✓														
- 02	✓														
- 03	✓														
- 04	✓														
- 05	✓														
- 06	✓														
- 07	✓														
- 08	✓														
- 09	✓														
- 10	✓														
- 11	✓														
- 12	✓														
- 13	✓														
- 14	✓														
- 15	✓														
- 16	✓														
- 17	✓														
- 18	✓														
- 19	✓														
- 20	✓														
- 21	✓														
- 22	✓														
- 23															
- 24															
- 25															
- 26															
- 27															
- 28															
- 29															
- 30															

	Reagent name	ID		Reagent name	ID		Reagent name	ID
1			3			5		
2			4			6		

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

Thursday, April 30, 2009

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: C904409

Dear Courtney Withers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, April 23, 2009.

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 41.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 5503-MW26 **Lab ID:** C904409-01 **Sampled:** 04/22/09 10:30 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/20/09	04/23/09 14:27	4/24/2009 07:32
EPA 310.2	05/06/09	04/28/09 06:34	4/28/2009 07:51
EPA 6010B	10/19/09	04/27/09 10:19	4/28/2009 15:37
EPA 6020	10/19/09	04/27/09 12:43	4/28/2009 16:22
EPA 7470A	05/20/09	04/23/09 11:30	4/23/2009 18:42
EPA 8260B	05/06/09	04/29/09 12:56	4/30/2009 07:30
SM 2540C	04/29/09	04/28/09 09:39	4/29/2009 13:44

Client ID: 5503-MW27 **Lab ID:** C904409-02 **Sampled:** 04/22/09 10:35 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/20/09	04/23/09 14:27	4/24/2009 07:54
EPA 310.2	05/06/09	04/28/09 06:34	4/28/2009 07:54
EPA 6010B	10/19/09	04/27/09 10:19	4/28/2009 15:39
EPA 6020	10/19/09	04/27/09 12:43	4/28/2009 16:25
EPA 7470A	05/20/09	04/23/09 11:30	4/23/2009 18:45
EPA 8260B	05/06/09	04/30/09 09:58	4/30/2009 14:26
SM 2540C	04/29/09	04/28/09 09:39	4/29/2009 13:44

Client ID: 5503-MW28 **Lab ID:** C904409-03 **Sampled:** 04/22/09 11:30 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/20/09	04/23/09 14:27	4/24/2009 08:16
EPA 310.2	05/06/09	04/28/09 06:34	4/28/2009 07:55
EPA 6010B	10/19/09	04/27/09 10:19	4/28/2009 15:41
EPA 6020	10/19/09	04/27/09 12:43	4/28/2009 16:36
EPA 7470A	05/20/09	04/23/09 11:30	4/23/2009 18:48
EPA 8260B	05/06/09	04/30/09 09:58	4/30/2009 14:56
SM 2540C	04/29/09	04/28/09 09:39	4/29/2009 13:44

Client ID: 5503-MW29 **Lab ID:** C904409-04 **Sampled:** 04/21/09 11:05 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/19/09	04/23/09 14:27	4/24/2009 08:38
EPA 310.2	05/05/09	04/28/09 06:34	4/28/2009 07:55
EPA 6010B	10/18/09	04/27/09 10:19	4/28/2009 15:44
EPA 6020	10/18/09	04/27/09 12:43	4/28/2009 16:39
EPA 7470A	05/19/09	04/23/09 11:30	4/23/2009 18:50
EPA 8260B	05/05/09	04/30/09 09:58	4/30/2009 15:26
SM 2540C	04/28/09	04/28/09 09:39	4/29/2009 13:44

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Client ID: 5503-MW30	Lab ID: C904409-05	Sampled: 04/22/09 10:10	Received: 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/20/09	04/23/09 14:27	4/24/2009 09:42
EPA 310.2	05/06/09	04/28/09 06:34	4/28/2009 07:57
EPA 6010B	10/19/09	04/27/09 10:19	4/28/2009 15:53
EPA 6020	10/19/09	04/27/09 12:43	4/28/2009 16:42
EPA 7470A	05/20/09	04/23/09 11:30	4/23/2009 18:54
EPA 8260B	05/06/09	04/30/09 09:58	4/30/2009 15:56
SM 2540C	04/29/09	04/28/09 09:39	4/29/2009 13:44

Client ID: 5503-MW31	Lab ID: C904409-06	Sampled: 04/22/09 10:15	Received: 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/20/09	04/23/09 14:27	4/24/2009 10:04
EPA 310.2	05/06/09	04/28/09 06:34	4/28/2009 07:58
EPA 6010B	10/19/09	04/27/09 10:19	4/28/2009 15:55
EPA 6020	10/19/09	04/27/09 12:43	4/28/2009 16:46
EPA 7470A	05/20/09	04/23/09 11:30	4/23/2009 18:20
EPA 8260B	05/06/09	04/30/09 09:58	4/30/2009 16:32
SM 2540C	04/29/09	04/28/09 09:39	4/29/2009 13:44

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 5503-MW26 **Lab ID: C904409-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	58.6	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.16	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Chloride	3.9	J	1	0.018	5.0	NE	mg/L	EPA 300.0	
Chromium - Total	2.3	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Cobalt - Total	3.0	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Iron - Total	486		1	31	50	300	ug/L	EPA 6010B	
Manganese - Total	83.4		1	1.1	10.0	50	ug/L	EPA 6010B	
Nickel - Total	3.2	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Sulfate as SO4	3.3	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Alkalinity	22		1	8.3	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	40		1	10	10	NE	mg/L	SM 2540C	
Vanadium - Total	1.3	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	6.2	J	1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 5503-MW27 **Lab ID: C904409-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	247		1	4.20	10.0	100	ug/L	EPA 6010B	
Benzene	0.53	J	1	0.20	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.81	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Cadmium - Total	0.22	J	1	0.09	1.00	1	ug/L	EPA 6010B	
Chloride	8.7		1	0.018	5.0	NE	mg/L	EPA 300.0	
Chromium - Total	2.4	J	1	0.7	10.0	10	ug/L	EPA 6010B	
cis-1,2-Dichloroethene	0.49	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	7.2	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Iron - Total	701		1	31	50	300	ug/L	EPA 6010B	
Lead - Total	2.6	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Manganese - Total	320		1	1.1	10.0	50	ug/L	EPA 6010B	
Nickel - Total	8.9	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Sulfate as SO4	2.1	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Alkalinity	31		1	8.3	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	60		1	10	10	NE	mg/L	SM 2540C	
Vanadium - Total	7.1	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Xylenes (Total)	0.91	J	1	0.40	1.0	5	ug/L	EPA 8260B	
Zinc - Total	22.1		1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 5503-MW28 **Lab ID: C904409-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	47.5	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.15	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Chloride	2.7	J	1	0.018	5.0	NE	mg/L	EPA 300.0	
Cobalt - Total	1.4	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Iron - Total	196	J	1	31	50	300	ug/L	EPA 6010B	
Lead - Total	1.6	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Manganese - Total	30.7	J	1	1.1	10.0	50	ug/L	EPA 6010B	
Nickel - Total	2.1	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Tetrachloroethene	2.5		1	0.36	1.0	1	ug/L	EPA 8260B	
Trichlorofluoromethane	0.44	J	1	0.28	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	0.9	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	7.5	J	1	3.4	10.0	10	ug/L	EPA 6010B	

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Client ID: 5503-MW29						Lab ID: C904409-04			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	13.9	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.46	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Chloride	3.9	J	1	0.018	5.0	NE	mg/L	EPA 300.0	
Chromium - Total	2.5	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Cobalt - Total	1.4	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Copper - Total	3.81	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Iron - Total	14300		1	31	50	300	ug/L	EPA 6010B	
Lead - Total	4.4	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Manganese - Total	32.9	J	1	1.1	10.0	50	ug/L	EPA 6010B	
Nickel - Total	3.0	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Selenium - Total	4.0	J	1	3.4	10.0	10	ug/L	EPA 6010B	
Sulfate as SO4	8.2	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Alkalinity	38		1	8.3	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	84		1	10	10	NE	mg/L	SM 2540C	
Vanadium - Total	5.2	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	9.5	J	1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 5503-MW30						Lab ID: C904409-05			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	38.0	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.12	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Chloride	2.8	J	1	0.018	5.0	NE	mg/L	EPA 300.0	
Iron - Total	676		1	31	50	300	ug/L	EPA 6010B	
Lead - Total	1.8	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Manganese - Total	17.8	J	1	1.1	10.0	50	ug/L	EPA 6010B	
Nickel - Total	1.4	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Sulfate as SO4	4.4	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Alkalinity	16		1	8.3	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	44		1	10	10	NE	mg/L	SM 2540C	
Vanadium - Total	1.4	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	5.9	J	1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 5503-MW31						Lab ID: C904409-06			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	5.31	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Chloride	3.0	J	1	0.018	5.0	NE	mg/L	EPA 300.0	
Iron - Total	4500		1	31	50	300	ug/L	EPA 6010B	
Lead - Total	1.7	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Manganese - Total	29.7	J	1	1.1	10.0	50	ug/L	EPA 6010B	
Nickel - Total	1.3	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Sulfate as SO4	8.8	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Dissolved Solids	20		1	10	10	NE	mg/L	SM 2540C	
Zinc - Total	3.9	J	1	3.4	10.0	10	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: 5503-MW26
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C904409-01
Sampled: 04/22/09 10:30
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904409

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 07:30	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 07:30	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 07:30	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 07:30	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 07:30	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 07:30	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 07:30	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 07:30	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 07:30	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 07:30	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 07:30	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 07:30	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 07:30	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 07:30	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 07:30	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 07:30	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 07:30	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 07:30	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 07:30	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 07:30	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 07:30	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 07:30	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 07:30	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 07:30	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 07:30	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 07:30	JKG	

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Description:	5503-MW26	**Lab Sample ID:**	C904409-01	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 10:30	**Work Order:**	C904409
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
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 07:30	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 07:30	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 07:30	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9D29022*	*EPA 8260B*	*04/30/09 07:30*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*85 %*	*68-117*	*9D29022*	*EPA 8260B*	*04/30/09 07:30*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*9D29022*	*EPA 8260B*	*04/30/09 07:30*	*JKG*	

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Description: 5503-MW26
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C904409-01
Sampled: 04/22/09 10:30
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904409

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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 16:22	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/28/09 15:37	JDH	
Barium [7440-39-3] ^	**58.6**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/28/09 15:37	JDH	
Beryllium [7440-41-7] ^	**0.16**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/28/09 15:37	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/28/09 15:37	JDH	
Chromium [7440-47-3] ^	**2.3**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/28/09 15:37	JDH	
Cobalt [7440-48-4] ^	**3.0**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/28/09 15:37	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/28/09 15:37	JDH	
Iron [7439-89-6] ^	**486**		ug/L	1	31	50	300	EPA 6010B	04/28/09 15:37	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/28/09 15:37	JDH	
Manganese [7439-96-5] ^	**83.4**		ug/L	1	1.1	10.0	50	EPA 6010B	04/28/09 15:37	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	04/23/09 18:42	NLH	
Nickel [7440-02-0] ^	**3.2**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/28/09 15:37	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:37	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/28/09 15:37	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 16:22	VLO	
Vanadium [7440-62-2] ^	**1.3**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/28/09 15:37	JDH	
Zinc [7440-66-6] ^	**6.2**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:37	JDH	

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Description:	5503-MW26	**Lab Sample ID:**	C904409-01	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 10:30	**Work Order:**	C904409
Project:	Lincoln County LF - C&D	**Sampled By:**	Courtney Withers		

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] ^	**3.9**	J	mg/L	1	0.018	5.0	NE	EPA 300.0	04/24/09 07:32	AJB	
Sulfate as SO4 [14808-79-8] ^	**3.3**	J	mg/L	1	0.078	5.0	250	EPA 300.0	04/24/09 07:32	AJB	
Total Alkalinity [471-34-1] ^	**22**		mg/L	1	8.3	15	NE	EPA 310.2	04/28/09 07:51	PEV	
Total Dissolved Solids [ECL-0156] ^	**40**		mg/L	1	10	10	NE	SM 2540C	04/29/09 13:44	JOC	

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
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C904409-02
Sampled: 04/22/09 10:35
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904409

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 14:26	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 14:26	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 14:26	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 14:26	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 14:26	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 14:26	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 14:26	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 14:26	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 14:26	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 14:26	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 14:26	JKG	
Benzene [71-43-2] ^	**0.53**	J	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 14:26	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 14:26	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 14:26	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 14:26	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 14:26	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 14:26	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 14:26	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.49**	J	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 14:26	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 14:26	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 14:26	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 14:26	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 14:26	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 14:26	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 14:26	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 14:26	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 14:26	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 14:26	JKG	

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Description:	5503-MW27	**Lab Sample ID:**	C904409-02	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 10:35	**Work Order:**	C904409
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] ^	**0.91**	J	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 14:26	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*9D30014*	*EPA 8260B*	*04/30/09 14:26*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*95 %*	*68-117*	*9D30014*	*EPA 8260B*	*04/30/09 14:26*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*9D30014*	*EPA 8260B*	*04/30/09 14:26*	*JKG*	

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Description: 5503-MW27
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C904409-02
Sampled: 04/22/09 10:35
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904409

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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 16:25	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/28/09 15:39	JDH	
Barium [7440-39-3] ^	**247**		ug/L	1	4.20	10.0	100	EPA 6010B	04/28/09 15:39	JDH	
Beryllium [7440-41-7] ^	**0.81**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/28/09 15:39	JDH	
Cadmium [7440-43-9] ^	**0.22**	J	ug/L	1	0.09	1.00	1	EPA 6010B	04/28/09 15:39	JDH	
Chromium [7440-47-3] ^	**2.4**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/28/09 15:39	JDH	
Cobalt [7440-48-4] ^	**7.2**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/28/09 15:39	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/28/09 15:39	JDH	
Iron [7439-89-6] ^	**701**		ug/L	1	31	50	300	EPA 6010B	04/28/09 15:39	JDH	
Lead [7439-92-1] ^	**2.6**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/28/09 15:39	JDH	
Manganese [7439-96-5] ^	**320**		ug/L	1	1.1	10.0	50	EPA 6010B	04/28/09 15:39	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	04/23/09 18:45	NLH	
Nickel [7440-02-0] ^	**8.9**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/28/09 15:39	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:39	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/28/09 15:39	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 16:25	VLO	
Vanadium [7440-62-2] ^	**7.1**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/28/09 15:39	JDH	
Zinc [7440-66-6] ^	**22.1**		ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:39	JDH	

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Description:	5503-MW27	**Lab Sample ID:**	C904409-02	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 10:35	**Work Order:**	C904409
Project:	Lincoln County LF - C&D	**Sampled By:**	Courtney Withers		

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] ^	**8.7**		mg/L	1	0.018	5.0	NE	EPA 300.0	04/24/09 07:54	AJB	
Sulfate as SO4 [14808-79-8] ^	**2.1**	J	mg/L	1	0.078	5.0	250	EPA 300.0	04/24/09 07:54	AJB	
Total Alkalinity [471-34-1] ^	**31**		mg/L	1	8.3	15	NE	EPA 310.2	04/28/09 07:54	PEV	
Total Dissolved Solids [ECL-0156] ^	**60**		mg/L	1	10	10	NE	SM 2540C	04/29/09 13:44	JOC	

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Description: 5503-MW28
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C904409-03
Sampled: 04/22/09 11:30
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904409

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 14:56	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 14:56	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 14:56	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 14:56	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 14:56	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 14:56	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 14:56	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 14:56	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 14:56	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 14:56	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 14:56	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 14:56	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 14:56	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 14:56	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 14:56	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 14:56	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 14:56	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 14:56	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 14:56	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 14:56	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 14:56	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 14:56	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 14:56	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
Tetrachloroethene [127-18-4] ^	**2.5**		ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 14:56	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 14:56	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
Trichlorofluoromethane [75-69-4] ^	**0.44**	J	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 14:56	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 14:56	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 14:56	JKG	

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Description:	5503-MW28	**Lab Sample ID:**	C904409-03	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 11:30	**Work Order:**	C904409
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	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 14:56	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*9D30014*	*EPA 8260B*	*04/30/09 14:56*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*9D30014*	*EPA 8260B*	*04/30/09 14:56*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*9D30014*	*EPA 8260B*	*04/30/09 14:56*	*JKG*	

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Description: 5503-MW28
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C904409-03
Sampled: 04/22/09 11:30
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904409

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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 16:36	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/28/09 15:41	JDH	
Barium [7440-39-3] ^	**47.5**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/28/09 15:41	JDH	
Beryllium [7440-41-7] ^	**0.15**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/28/09 15:41	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/28/09 15:41	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/28/09 15:41	JDH	
Cobalt [7440-48-4] ^	**1.4**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/28/09 15:41	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/28/09 15:41	JDH	
Iron [7439-89-6] ^	**196**	J	ug/L	1	31	50	300	EPA 6010B	04/28/09 15:41	JDH	
Lead [7439-92-1] ^	**1.6**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/28/09 15:41	JDH	
Manganese [7439-96-5] ^	**30.7**	J	ug/L	1	1.1	10.0	50	EPA 6010B	04/28/09 15:41	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	04/23/09 18:48	NLH	
Nickel [7440-02-0] ^	**2.1**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/28/09 15:41	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:41	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/28/09 15:41	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 16:36	VLO	
Vanadium [7440-62-2] ^	**0.9**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/28/09 15:41	JDH	
Zinc [7440-66-6] ^	**7.5**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:41	JDH	

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Description:	5503-MW28	**Lab Sample ID:**	C904409-03	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 11:30	**Work Order:**	C904409
Project:	Lincoln County LF - C&D	**Sampled By:**	Courtney Withers		

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] ^	**2.7**	J	mg/L	1	0.018	5.0	NE	EPA 300.0	04/24/09 08:16	AJB	
Sulfate as SO4 [14808-79-8] ^	0.078	U	mg/L	1	0.078	5.0	250	EPA 300.0	04/24/09 08:16	AJB	
Total Alkalinity [471-34-1] ^	8.3	U	mg/L	1	8.3	15	NE	EPA 310.2	04/28/09 07:55	PEV	
Total Dissolved Solids [ECL-0156] ^	10	U	mg/L	1	10	10	NE	SM 2540C	04/29/09 13:44	JOC	

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Description: 5503-MW29
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C904409-04
Sampled: 04/21/09 11:05
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904409

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 15:26	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 15:26	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 15:26	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 15:26	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 15:26	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 15:26	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 15:26	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 15:26	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 15:26	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 15:26	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 15:26	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 15:26	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 15:26	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 15:26	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 15:26	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 15:26	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 15:26	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 15:26	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 15:26	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 15:26	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 15:26	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 15:26	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 15:26	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 15:26	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 15:26	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 15:26	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 15:26	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 15:26	JKG	

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Description:	5503-MW29	**Lab Sample ID:**	C904409-04	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 11:05	**Work Order:**	C904409
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	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 15:26	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9D30014*	*EPA 8260B*	*04/30/09 15:26*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*95 %*	*68-117*	*9D30014*	*EPA 8260B*	*04/30/09 15:26*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*69-110*	*9D30014*	*EPA 8260B*	*04/30/09 15:26*	*JKG*	

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Description: 5503-MW29
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C904409-04
Sampled: 04/21/09 11:05
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904409

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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 16:39	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/28/09 15:44	JDH	
Barium [7440-39-3] ^	**13.9**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/28/09 15:44	JDH	
Beryllium [7440-41-7] ^	**0.46**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/28/09 15:44	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/28/09 15:44	JDH	
Chromium [7440-47-3] ^	**2.5**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/28/09 15:44	JDH	
Cobalt [7440-48-4] ^	**1.4**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/28/09 15:44	JDH	
Copper [7440-50-8] ^	**3.81**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/28/09 15:44	JDH	
Iron [7439-89-6] ^	**14300**		ug/L	1	31	50	300	EPA 6010B	04/28/09 15:44	JDH	
Lead [7439-92-1] ^	**4.4**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/28/09 15:44	JDH	
Manganese [7439-96-5] ^	**32.9**	J	ug/L	1	1.1	10.0	50	EPA 6010B	04/28/09 15:44	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	04/23/09 18:50	NLH	
Nickel [7440-02-0] ^	**3.0**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/28/09 15:44	JDH	
Selenium [7782-49-2] ^	**4.0**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:44	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/28/09 15:44	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 16:39	VLO	
Vanadium [7440-62-2] ^	**5.2**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/28/09 15:44	JDH	
Zinc [7440-66-6] ^	**9.5**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:44	JDH	

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Description:	5503-MW29	**Lab Sample ID:**	C904409-04	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/21/09 11:05	**Work Order:**	C904409
Project:	Lincoln County LF - C&D	**Sampled By:**	Courtney Withers		

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] ^	**3.9**	J	mg/L	1	0.018	5.0	NE	EPA 300.0	04/24/09 08:38	AJB	
Sulfate as SO4 [14808-79-8] ^	**8.2**	J	mg/L	1	0.078	5.0	250	EPA 300.0	04/24/09 08:38	AJB	
Total Alkalinity [471-34-1] ^	**38**		mg/L	1	8.3	15	NE	EPA 310.2	04/28/09 07:55	PEV	
Total Dissolved Solids [ECL-0156] ^	**84**		mg/L	1	10	10	NE	SM 2540C	04/29/09 13:44	JOC	

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-MW30
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C904409-05
Sampled: 04/22/09 10:10
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904409

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 15:56	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 15:56	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 15:56	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 15:56	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 15:56	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 15:56	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 15:56	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 15:56	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 15:56	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 15:56	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 15:56	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 15:56	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 15:56	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 15:56	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 15:56	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 15:56	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 15:56	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 15:56	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 15:56	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 15:56	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 15:56	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 15:56	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 15:56	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 15:56	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 15:56	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 15:56	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 15:56	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 15:56	JKG	

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Description:	5503-MW30	**Lab Sample ID:**	C904409-05	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 10:10	**Work Order:**	C904409
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	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 15:56	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9D30014*	*EPA 8260B*	*04/30/09 15:56*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*95 %*	*68-117*	*9D30014*	*EPA 8260B*	*04/30/09 15:56*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*9D30014*	*EPA 8260B*	*04/30/09 15:56*	*JKG*	

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Description: 5503-MW30
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C904409-05
Sampled: 04/22/09 10:10
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904409

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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 16:42	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/28/09 15:53	JDH	
Barium [7440-39-3] ^	**38.0**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/28/09 15:53	JDH	
Beryllium [7440-41-7] ^	**0.12**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/28/09 15:53	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/28/09 15:53	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/28/09 15:53	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/28/09 15:53	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/28/09 15:53	JDH	
Iron [7439-89-6] ^	**676**		ug/L	1	31	50	300	EPA 6010B	04/28/09 15:53	JDH	
Lead [7439-92-1] ^	**1.8**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/28/09 15:53	JDH	
Manganese [7439-96-5] ^	**17.8**	J	ug/L	1	1.1	10.0	50	EPA 6010B	04/28/09 15:53	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	04/23/09 18:54	NLH	
Nickel [7440-02-0] ^	**1.4**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/28/09 15:53	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:53	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/28/09 15:53	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 16:42	VLO	
Vanadium [7440-62-2] ^	**1.4**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/28/09 15:53	JDH	
Zinc [7440-66-6] ^	**5.9**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:53	JDH	

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Description:	5503-MW30	**Lab Sample ID:**	C904409-05	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 10:10	**Work Order:**	C904409
Project:	Lincoln County LF - C&D	**Sampled By:**	Courtney Withers		

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] ^	**2.8**	J	mg/L	1	0.018	5.0	NE	EPA 300.0	04/24/09 09:42	AJB	
Sulfate as SO4 [14808-79-8] ^	**4.4**	J	mg/L	1	0.078	5.0	250	EPA 300.0	04/24/09 09:42	AJB	
Total Alkalinity [471-34-1] ^	**16**		mg/L	1	8.3	15	NE	EPA 310.2	04/28/09 07:57	PEV	
Total Dissolved Solids [ECL-0156] ^	**44**		mg/L	1	10	10	NE	SM 2540C	04/29/09 13:44	JOC	

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
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C904409-06
Sampled: 04/22/09 10:15
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904409

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 16:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 16:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 16:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 16:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 16:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 16:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 16:32	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 16:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 16:32	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 16:32	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 16:32	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 16:32	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 16:32	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 16:32	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 16:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 16:32	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 16:32	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 16:32	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 16:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 16:32	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 16:32	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 16:32	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 16:32	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 16:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 16:32	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 16:32	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 16:32	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 16:32	JKG	

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Description:	5503-MW31	**Lab Sample ID:**	C904409-06	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 10:15	**Work Order:**	C904409
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	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 16:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9D30014*	*EPA 8260B*	*04/30/09 16:32*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*68-117*	*9D30014*	*EPA 8260B*	*04/30/09 16:32*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*69-110*	*9D30014*	*EPA 8260B*	*04/30/09 16:32*	*JKG*	

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Description: 5503-MW31
Matrix: Ground Water
Project: Lincoln County LF - C&D

Lab Sample ID: C904409-06
Sampled: 04/22/09 10:15
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904409

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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 16:46	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/28/09 15:55	JDH	
Barium [7440-39-3] ^	**5.31**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/28/09 15:55	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/28/09 15:55	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/28/09 15:55	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/28/09 15:55	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/28/09 15:55	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/28/09 15:55	JDH	
Iron [7439-89-6] ^	**4500**		ug/L	1	31	50	300	EPA 6010B	04/28/09 15:55	JDH	
Lead [7439-92-1] ^	**1.7**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/28/09 15:55	JDH	
Manganese [7439-96-5] ^	**29.7**	J	ug/L	1	1.1	10.0	50	EPA 6010B	04/28/09 15:55	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	04/23/09 18:20	NLH	
Nickel [7440-02-0] ^	**1.3**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/28/09 15:55	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:55	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/28/09 15:55	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 16:46	VLO	
Vanadium [7440-62-2] ^	0.7	U	ug/L	1	0.7	10.0	25	EPA 6010B	04/28/09 15:55	JDH	
Zinc [7440-66-6] ^	**3.9**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:55	JDH	

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Description:	5503-MW31	**Lab Sample ID:**	C904409-06	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 10:15	**Work Order:**	C904409
Project:	Lincoln County LF - C&D	**Sampled By:**	Courtney Withers		

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	04/24/09 10:04	AJB	
Sulfate as SO4 [14808-79-8] ^	**8.8**	J	mg/L	1	0.078	5.0	250	EPA 300.0	04/24/09 10:04	AJB	
Total Alkalinity [471-34-1] ^	8.3	U	mg/L	1	8.3	15	NE	EPA 310.2	04/28/09 07:58	PEV	
Total Dissolved Solids [ECL-0156] ^	**20**		mg/L	1	10	10	NE	SM 2540C	04/29/09 13:44	JOC	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D29022 - EPA 5030B_MS

Blank (9D29022-BLK1) Prepared: 04/29/2009 12:56 Analyzed: 04/29/2009 22:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	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	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	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	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	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 9D29022 - EPA 5030B_MS

Blank (9D29022-BLK1) Continued Prepared: 04/29/2009 12:56 Analyzed: 04/29/2009 22:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*84*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*95*	*69-110*			

LCS (9D29022-BS1) Prepared: 04/29/2009 12:56 Analyzed: 04/29/2009 22:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0		85	75-133			
Benzene	19		1.0	ug/L	20.0		95	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		105	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			
Trichloroethene	20		1.0	ug/L	20.0		102	75-115			

Matrix Spike (9D29022-MS1) Prepared: 04/29/2009 12:56 Analyzed: 04/29/2009 23:03

Source: C904790-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.24 U	87	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	96	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	107	83-117			
Toluene	20		1.0	ug/L	20.0	0.27 U	101	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	102	75-115			

Matrix Spike Dup (9D29022-MSD1) Prepared: 04/29/2009 12:56 Analyzed: 04/29/2009 23:33

Source: C904790-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.24 U	88	75-133	2	20	
Benzene	18		1.0	ug/L	20.0	0.20 U	91	81-134	6	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	106	83-117	2	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	98	71-118	3	17	
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	102	75-115	0.2	18	

Batch 9D30014 - EPA 5030B_MS

Blank (9D30014-BLK1) Prepared: 04/30/2009 09:58 Analyzed: 04/30/2009 10:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	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	0.27	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D30014 - EPA 5030B_MS

Blank (9D30014-BLK1) Continued Prepared: 04/30/2009 09:58 Analyzed: 04/30/2009 10:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	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	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*91*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*69-110*			

LCS (9D30014-BS1) Prepared: 04/30/2009 09:58 Analyzed: 04/30/2009 12:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		118	75-133			
Benzene	23		1.0	ug/L	20.0		117	81-134			
Chlorobenzene	22		1.0	ug/L	20.0		112	83-117			
Toluene	22		1.0	ug/L	20.0		111	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D30014 - EPA 5030B_MS

LCS (9D30014-BS1) Continued Prepared: 04/30/2009 09:58 Analyzed: 04/30/2009 12:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	22		1.0	ug/L	20.0		111	75-115			

Matrix Spike (9D30014-MS1) Prepared: 04/30/2009 09:58 Analyzed: 04/30/2009 12:56

Source: C904790-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.24 U	113	75-133			
Benzene	23		1.0	ug/L	20.0	0.20 U	114	81-134			
Chlorobenzene	22		1.0	ug/L	20.0	0.27 U	109	83-117			
Toluene	21		1.0	ug/L	20.0	0.27 U	107	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	109	75-115			

Matrix Spike Dup (9D30014-MSD1) Prepared: 04/30/2009 09:58 Analyzed: 04/30/2009 13:26

Source: C904790-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	111	75-133	2	20	
Benzene	22		1.0	ug/L	20.0	0.20 U	112	81-134	2	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	107	83-117	2	16	
Toluene	21		1.0	ug/L	20.0	0.27 U	104	71-118	3	17	
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	107	75-115	2	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D23027 - EPA 245.1

Blank (9D23027-BLK1) Prepared: 04/23/2009 11:30 Analyzed: 04/23/2009 18:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (9D23027-BS1) Prepared: 04/23/2009 11:30 Analyzed: 04/23/2009 18:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.11		0.20	ug/L	5.00		102	85-115			

Matrix Spike (9D23027-MS1) Prepared: 04/23/2009 11:30 Analyzed: 04/23/2009 18:23

Source: C904409-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.02		0.20	ug/L	5.00	0.11 U	100	85-115			

Matrix Spike Dup (9D23027-MSD1) Prepared: 04/23/2009 11:30 Analyzed: 04/23/2009 18:32

Source: C904409-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.88		0.20	ug/L	5.00	0.11 U	98	85-115	3	15	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D23027 - EPA 245.1

Post Spike (9D23027-PS1) Prepared: 04/23/2009 11:30 Analyzed: 04/23/2009 18:35

Source: C904409-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.13		0.20	ug/L	5.00	-0.09	84	75-125			

Batch 9D27007 - EPA 3005A

Blank (9D27007-BLK1) Prepared: 04/27/2009 10:19 Analyzed: 04/28/2009 14:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	4.20	U	10.0	ug/L							
Beryllium	0.08	U	1.00	ug/L							
Cadmium	0.09	U	1.00	ug/L							
Chromium	0.7	U	10.0	ug/L							
Cobalt	0.6	U	10.0	ug/L							
Copper	0.81	U	10.0	ug/L							
Iron	31	U	50	ug/L							
Lead	1.6	U	10.0	ug/L							
Manganese	1.1	U	10.0	ug/L							
Nickel	0.6	U	10.0	ug/L							
Selenium	3.4	U	10.0	ug/L							
Silver	1.0	U	10.0	ug/L							
Vanadium	0.7	U	10.0	ug/L							
Zinc	3.4	U	10.0	ug/L							

LCS (9D27007-BS1) Prepared: 04/27/2009 10:19 Analyzed: 04/28/2009 14:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1060		10.0	ug/L	1000		106	80-120			
Barium	1060		10.0	ug/L	1000		106	80-120			
Beryllium	530		1.00	ug/L	500		106	80-120			
Cadmium	527		1.00	ug/L	500		105	80-120			
Chromium	1080		10.0	ug/L	1000		108	80-120			
Cobalt	1040		10.0	ug/L	1000		104	80-120			
Copper	537		10.0	ug/L	500		107	80-120			
Iron	10900		50	ug/L	10000		109	80-120			
Lead	1070		10.0	ug/L	1000		107	80-120			
Manganese	535		10.0	ug/L	500		107	80-120			
Nickel	1080		10.0	ug/L	1000		108	80-120			
Selenium	1110		10.0	ug/L	1000		111	80-120			
Silver	112		10.0	ug/L	100		112	80-120			
Vanadium	547		10.0	ug/L	500		109	80-120			
Zinc	1090		10.0	ug/L	1000		109	80-120			

Matrix Spike (9D27007-MS1) Prepared: 04/27/2009 10:19 Analyzed: 04/28/2009 15:01

Source: C904736-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D27007 - EPA 3005A

Matrix Spike (9D27007-MS1) Continued Prepared: 04/27/2009 10:19 Analyzed: 04/28/2009 15:01

Source: C904736-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1060		10.0	ug/L	1000	2.8 U	106	75-125			
Barium	1080		10.0	ug/L	1000	26.3	105	75-125			
Beryllium	535		1.00	ug/L	500	0.08 U	107	75-125			
Cadmium	517		1.00	ug/L	500	0.19	103	75-125			
Chromium	1070		10.0	ug/L	1000	1.6	107	75-125			
Cobalt	1030		10.0	ug/L	1000	1.1	103	75-125			
Copper	882		10.0	ug/L	500	334	110	75-125			
Iron	12700		50	ug/L	10000	1840	108	75-125			
Lead	1060		10.0	ug/L	1000	13.7	105	75-125			
Manganese	594		10.0	ug/L	500	54.7	108	75-125			
Nickel	1080		10.0	ug/L	1000	15.7	107	75-125			
Selenium	1110		10.0	ug/L	1000	3.4 U	111	75-125			
Silver	114		10.0	ug/L	100	2.2	112	75-125			
Vanadium	545		10.0	ug/L	500	0.7 U	109	75-125			
Zinc	1260		10.0	ug/L	1000	171	109	75-125			

Matrix Spike Dup (9D27007-MSD1) Prepared: 04/27/2009 10:19 Analyzed: 04/28/2009 15:03

Source: C904736-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1050		10.0	ug/L	1000	2.8 U	105	75-125	1	25	
Barium	1060		10.0	ug/L	1000	26.3	103	75-125	2	25	
Beryllium	534		1.00	ug/L	500	0.08 U	107	75-125	0.3	25	
Cadmium	505		1.00	ug/L	500	0.19	101	75-125	2	25	
Chromium	1030		10.0	ug/L	1000	1.6	103	75-125	4	25	
Cobalt	1020		10.0	ug/L	1000	1.1	101	75-125	2	25	
Copper	848		10.0	ug/L	500	334	103	75-125	4	25	
Iron	12300		50	ug/L	10000	1840	105	75-125	3	25	
Lead	1050		10.0	ug/L	1000	13.7	104	75-125	1	25	
Manganese	573		10.0	ug/L	500	54.7	104	75-125	4	25	
Nickel	1070		10.0	ug/L	1000	15.7	105	75-125	2	25	
Selenium	1090		10.0	ug/L	1000	3.4 U	109	75-125	2	25	
Silver	108		10.0	ug/L	100	2.2	106	75-125	5	25	
Vanadium	526		10.0	ug/L	500	0.7 U	105	75-125	4	25	
Zinc	1240		10.0	ug/L	1000	171	106	75-125	2	25	

Post Spike (9D27007-PS1) Prepared: 04/27/2009 10:19 Analyzed: 04/28/2009 15:05

Source: C904736-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.0		0.01	mg/L	1.00	-0.0003	99	75-125			
Barium	0.99		0.01	mg/L	1.00	0.03	97	75-125			
Beryllium	0.50		0.001	mg/L	0.500	0.00007	100	75-125			
Cadmium	0.47		0.001	mg/L	0.500	0.0002	95	75-125			
Chromium	1.0		0.01	mg/L	1.00	0.002	97	75-125			
Cobalt	1.0		0.01	mg/L	1.00	0.001	95	75-125			
Copper	0.81		0.01	mg/L	0.500	0.33	96	75-125			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D27007 - EPA 3005A

Post Spike (9D27007-PS1) Continued Prepared: 04/27/2009 10:19 Analyzed: 04/28/2009 15:05

Source: C904736-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron	12		0.05	mg/L	10.0	2	98	75-125			
Lead	1.0		0.01	mg/L	1.00	0.01	98	75-125			
Manganese	0.5		0.01	mg/L	0.500	0.05	97	75-125			
Nickel	1.0		0.01	mg/L	1.00	0.02	99	75-125			
Selenium	1.0		0.01	mg/L	1.00	0.003	102	75-125			
Silver	0.1		0.01	mg/L	0.100	0.002	101	75-125			
Vanadium	0.5		0.01	mg/L	0.500	0.0004	99	75-125			
Zinc	1.2		0.01	mg/L	1.00	0.2	99	75-125			

Batch 9D27019 - EPA 3005A

Blank (9D27019-BLK1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 14:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.68	U	2.00	ug/L							
Thallium	0.036	U	1.00	ug/L							

LCS (9D27019-BS1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 14:13

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	85-115			
Thallium	25.9		1.00	ug/L	25.0		103	85-115			

Matrix Spike (9D27019-MS1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 16:08

Source: C904411-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.2		2.00	ug/L	25.0	0.68 U	105	85-115			
Thallium	26.5		1.00	ug/L	25.0	1.91	98	85-115			

Matrix Spike Dup (9D27019-MSD1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 16:11

Source: C904411-01

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	0.68 U	105	85-115	0.3	20	
Thallium	25.8		1.00	ug/L	25.0	1.91	96	85-115	2	20	

Post Spike (9D27019-PS1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 16:15

Source: C904411-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.03		0.002	mg/L	0.0250	-0.00002	105	75-125			
Thallium	0.026		0.001	mg/L	0.0250	0.002	95	75-125			

Classical Chemistry Parameters - Quality Control

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9D23041 - NO PREP

Blank (9D23041-BLK1) Prepared: 04/23/2009 14:27 Analyzed: 04/23/2009 23:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.078	U	5.0	mg/L							

LCS (9D23041-BS1) Prepared: 04/23/2009 14:27 Analyzed: 04/23/2009 23:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	48		5.0	mg/L	50.0		96	90-110			
Sulfate as SO4	48		5.0	mg/L	50.0		97	90-110			

Matrix Spike (9D23041-MS1) Prepared: 04/23/2009 14:27 Analyzed: 04/24/2009 01:03

Source: C903591-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	510	DE	5.0	mg/L	200	290	111	80-120			QM-02
Sulfate as SO4	370	D	5.0	mg/L	200	150	110	80-120			

Matrix Spike Dup (9D23041-MSD1) Prepared: 04/23/2009 14:27 Analyzed: 04/24/2009 01:24

Source: C903591-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	510	DE	5.0	mg/L	200	290	111	80-120	0.3	15	QM-02
Sulfate as SO4	360	D	5.0	mg/L	200	150	108	80-120	0.9	15	

Batch 9D28001 - NO PREP

Blank (9D28001-BLK1) Prepared: 04/28/2009 06:34 Analyzed: 04/28/2009 07:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	8.3	U	15	mg/L							

LCS (9D28001-BS1) Prepared: 04/28/2009 06:34 Analyzed: 04/28/2009 07:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100		100	80-120			

Matrix Spike (9D28001-MS1) Prepared: 04/28/2009 06:34 Analyzed: 04/28/2009 07:52

Source: C904409-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	120		15	mg/L	100	22	95	80-120			

Matrix Spike Dup (9D28001-MSD1) Prepared: 04/28/2009 06:34 Analyzed: 04/28/2009 07:53

Source: C904409-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	120		15	mg/L	100	22	96	80-120	0.2	25	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9D28008 - NO PREP

Blank (9D28008-BLK1) Prepared: 04/28/2009 09:39 Analyzed: 04/29/2009 13:44

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 (9D28008-BS1) Prepared: 04/28/2009 09:39 Analyzed: 04/29/2009 13:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	310		10	mg/L	300		103	90-110			

Duplicate (9D28008-DUP1) Prepared: 04/28/2009 09:39 Analyzed: 04/29/2009 13:44

Source: C904409-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	40		10	mg/L		40			0	25	

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.

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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: ~~47789~~ 49080
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Courtney Withers	Billing Contact: Accounts Payable
Sampler(s) Signature: Courtney R. Withers	Facility # (if required): 5503

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C904409

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Cd,Co,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,TDS as conductivity,TDS SM2540C	Chloride 300,Sulfate 300							Sample Comments
							Preservation (See Codes) (Combine as necessary)										
	5503-MW26	4/22/09	1030	G	GW	6	X	X	X	X							
	5503-MW27	4/22/09	1035	G	GW	6	X	X	X	X							
	5503-MW28	4/22/09	1130	G	GW	6	X	X	X	X							
	5503-MW29	4/22/09	1105	G	GW	6	X	X	X	X							
	5503-MW30	4/22/09	1010	G	GW	6	X	X	X	X							
	5503-MW31	4/22/09	1015	G	GW	6	X	X	X	X							
							<-- Total # of Containers										

Sample Kit Prepared By: [illegible] Date/Time: 4/14/09	Relinquished By: Courtney R. Withers Date/Time: 4/22/09 1400	Received By: Briana Gregory Date/Time: 4/23/09 10:45	
Comments: C-586	Relinquished By: Date/Time:	Received By: Date/Time:	
	Relinquished By: Date/Time:	Received By: Date/Time:	
	Cooler #'s & Temps on Receipt: C-586 1.9°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.

Sample preservation verification

☒ Cary ☐ Jacksonville ☐ Orlando

Work order: C904409 Page: 1 of 1 Initials: BJG Date: 4/23/09

A check mark (✓) in any space under the appropriate column heading for the selected sample indicates that the pH met the required pH.
An asterisk (*) in any space under the appropriate column heading for the selected sample indicates that the pH was adjusted in the lab as described in the comments column.

Sample No	Metals	TPH	Ammonia	COD	Cyanide	TOC	Hardness	TKN/TON	Oil & grease	Phenolics	NOx	Extractables	Sulfide	FL-PRO	COMMENTS
pH →	<2	<2	<2	<2	>12	<2	<2	<2	<2	<2	<2	5-9	>9	<2	
- 1	✓														
- 2	✓														
- 3	✓														
- 4	✓														
- 5	✓														
- 6	✓														
- 7															
- 8															
- 9															
- 0															
- 1															
- 2															
- 3															
- 4															
- 5															
- 6															
- 7															
- 8															
- 9															
- 0															
- 1															
- 2															
- 3															
- 4															
- 5															
- 6															
- 7															
- 8															
- 9															
- 0															

	Reagent name	ID		Reagent name	ID		Reagent name	ID
1			3			5		
2			4			6		

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

Thursday, April 30, 2009

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: C904411

Dear Courtney Withers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, April 23, 2009.

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 28.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 5503-SW1 **Lab ID:** C904411-01 **Sampled:** 04/22/09 10:50 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/19/09	04/27/09 10:26	4/28/2009 16:59
EPA 6020	10/19/09	04/27/09 12:43	4/28/2009 16:04
EPA 7470A	05/20/09	04/23/09 11:24	4/23/2009 17:47
EPA 8260B	05/06/09	04/30/09 08:19	4/30/2009 10:17

Client ID: 5503-SW2 **Lab ID:** C904411-02 **Sampled:** 04/22/09 11:00 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/19/09	04/27/09 10:26	4/28/2009 17:01
EPA 6020	10/19/09	04/27/09 12:43	4/28/2009 16:53
EPA 7470A	05/20/09	04/23/09 11:24	4/23/2009 17:56
EPA 8260B	05/06/09	04/30/09 08:19	4/30/2009 10:45

Client ID: 5503-SW3 **Lab ID:** C904411-03 **Sampled:** 04/22/09 11:20 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/19/09	04/27/09 10:26	4/28/2009 17:03
EPA 6020	10/19/09	04/27/09 12:43	4/28/2009 16:56
EPA 7470A	05/20/09	04/23/09 11:24	4/23/2009 17:59
EPA 8260B	05/06/09	04/30/09 08:19	4/30/2009 11:13

Client ID: 5503-SW4 **Lab ID:** C904411-04 **Sampled:** 04/21/09 10:45 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/27/09 10:26	4/28/2009 17:06
EPA 6020	10/18/09	04/27/09 12:43	4/28/2009 16:59
EPA 7470A	05/19/09	04/23/09 11:24	4/23/2009 18:03
EPA 8260B	05/05/09	04/30/09 08:19	4/30/2009 11:41

Client ID: 5503-SW5 **Lab ID:** C904411-05 **Sampled:** 04/21/09 10:30 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/18/09	04/27/09 10:26	4/28/2009 17:08
EPA 6020	10/18/09	04/27/09 12:43	4/28/2009 17:03
EPA 7470A	05/19/09	04/23/09 11:24	4/23/2009 18:06
EPA 8260B	05/05/09	04/30/09 08:19	4/30/2009 12:10

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 5503-SW1 **Lab ID: C904411-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	74.3	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Chromium - Total	0.9	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Cobalt - Total	6.3	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Iron - Total	2290		1	31	50	300	ug/L	EPA 6010B	
Lead - Total	2.8	JB	1	1.6	10.0	10	ug/L	EPA 6010B	J-01
Manganese - Total	640		1	1.1	10.0	50	ug/L	EPA 6010B	
Nickel - Total	4.9	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Thallium - Total	1.91	J	1	0.036	1.00	5.5	ug/L	EPA 6020	
Vanadium - Total	1.4	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	31.3		1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 5503-SW2 **Lab ID: C904411-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	27.1	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Iron - Total	730		1	31	50	300	ug/L	EPA 6010B	
Lead - Total	1.6	JB	1	1.6	10.0	10	ug/L	EPA 6010B	J-01
Manganese - Total	121		1	1.1	10.0	50	ug/L	EPA 6010B	
Nickel - Total	0.8	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	1.2	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	3.6	J	1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 5503-SW3 **Lab ID: C904411-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	34.5	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.14	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Chromium - Total	4.4	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Copper - Total	0.93	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Iron - Total	1290		1	31	50	300	ug/L	EPA 6010B	
Lead - Total	4.5	JB	1	1.6	10.0	10	ug/L	EPA 6010B	J-01
Manganese - Total	28.6	J	1	1.1	10.0	50	ug/L	EPA 6010B	
Nickel - Total	1.3	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	7.1	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	4.5	J	1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 5503-SW4 **Lab ID: C904411-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	24.1	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Iron - Total	386		1	31	50	300	ug/L	EPA 6010B	
Manganese - Total	47.3	J	1	1.1	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	1.1	J	1	0.7	10.0	25	ug/L	EPA 6010B	

Client ID: 5503-SW5 **Lab ID: C904411-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	62.6	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.19	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Chromium - Total	2.1	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Cobalt - Total	23.6		1	0.6	10.0	10	ug/L	EPA 6010B	
Iron - Total	18700		1	31	50	300	ug/L	EPA 6010B	

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Client ID:	5503-SW5					Lab ID:	C904411-05		
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Lead - Total	3.5	JB	1	1.6	10.0	10	ug/L	EPA 6010B	J-01
Manganese - Total	1300		1	1.1	10.0	50	ug/L	EPA 6010B	
Nickel - Total	2.9	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Selenium - Total	5.5	J	1	3.4	10.0	10	ug/L	EPA 6010B	
Vanadium - Total	4.3	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	9.3	J	1	3.4	10.0	10	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: 5503-SW1
Matrix: Surface Water
Project: Lincoln County LF - Surface Waters

Lab Sample ID: C904411-01
Sampled: 04/22/09 10:50
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904411

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 10:17	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 10:17	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 10:17	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 10:17	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 10:17	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 10:17	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 10:17	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 10:17	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 10:17	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 10:17	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 10:17	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 10:17	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 10:17	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 10:17	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 10:17	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 10:17	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 10:17	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 10:17	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 10:17	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 10:17	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 10:17	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 10:17	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 10:17	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 10:17	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 10:17	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 10:17	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 10:17	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 10:17	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 10:17	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 10:17	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 10:17	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 10:17	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 10:17	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 10:17	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 10:17	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 10:17	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 10:17	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 10:17	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 10:17	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 10:17	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 10:17	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 10:17	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 10:17	REF	

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Description:	5503-SW1	**Lab Sample ID:**	C904411-01	**Received:**	04/23/09 10:45
Matrix:	Surface Water	**Sampled:**	04/22/09 10:50	**Work Order:**	C904411
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] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 10:17	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 10:17	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 10:17	REF	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 10:17	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*9D30015*	*EPA 8260B*	*04/30/09 10:17*	*REF*	
Dibromofluoromethane	*49*	*1*	*50.0*	*99 %*	*68-117*	*9D30015*	*EPA 8260B*	*04/30/09 10:17*	*REF*	
Toluene-d8	*54*	*1*	*50.0*	*109 %*	*69-110*	*9D30015*	*EPA 8260B*	*04/30/09 10:17*	*REF*	

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Description:	5503-SW1	**Lab Sample ID:**	C904411-01	**Received:**	04/23/09 10:45
Matrix:	Surface Water	**Sampled:**	04/22/09 10:50	**Work Order:**	C904411
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 16:04	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/28/09 16:59	JDH	
Barium [7440-39-3] ^	**74.3**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/28/09 16:59	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/28/09 16:59	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/28/09 16:59	JDH	
Chromium [7440-47-3] ^	**0.9**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/28/09 16:59	JDH	
Cobalt [7440-48-4] ^	**6.3**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/28/09 16:59	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/28/09 16:59	JDH	
Iron [7439-89-6] ^	**2290**		ug/L	1	31	50	300	EPA 6010B	04/28/09 16:59	JDH	
Lead [7439-92-1] ^	**2.8**	JB	ug/L	1	1.6	10.0	10	EPA 6010B	04/28/09 16:59	JDH	J-01
Manganese [7439-96-5] ^	**640**		ug/L	1	1.1	10.0	50	EPA 6010B	04/28/09 16:59	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	04/23/09 17:47	NLH	
Nickel [7440-02-0] ^	**4.9**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/28/09 16:59	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 16:59	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/28/09 16:59	JDH	
Thallium [7440-28-0] ^	**1.91**	J	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 16:04	VLO	
Vanadium [7440-62-2] ^	**1.4**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/28/09 16:59	JDH	
Zinc [7440-66-6] ^	**31.3**		ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 16:59	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-SW2
Matrix: Surface Water
Project: Lincoln County LF - Surface Waters

Lab Sample ID: C904411-02
Sampled: 04/22/09 11:00
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904411

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 10:45	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 10:45	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 10:45	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 10:45	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 10:45	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 10:45	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 10:45	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 10:45	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 10:45	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 10:45	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 10:45	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 10:45	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 10:45	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 10:45	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 10:45	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 10:45	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 10:45	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 10:45	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 10:45	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 10:45	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 10:45	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 10:45	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 10:45	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 10:45	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 10:45	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 10:45	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 10:45	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 10:45	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 10:45	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 10:45	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 10:45	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 10:45	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 10:45	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 10:45	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 10:45	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 10:45	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 10:45	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 10:45	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 10:45	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 10:45	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 10:45	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 10:45	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 10:45	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 10:45	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 10:45	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 10:45	REF	

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Description:	5503-SW2	**Lab Sample ID:**	C904411-02	**Received:**	04/23/09 10:45
Matrix:	Surface Water	**Sampled:**	04/22/09 11:00	**Work Order:**	C904411
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 10:45	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*9D30015*	*EPA 8260B*	*04/30/09 10:45*	*REF*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*9D30015*	*EPA 8260B*	*04/30/09 10:45*	*REF*	
Toluene-d8	*54*	*1*	*50.0*	*109 %*	*69-110*	*9D30015*	*EPA 8260B*	*04/30/09 10:45*	*REF*	

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Description: 5503-SW2
Matrix: Surface Water
Project: Lincoln County LF - Surface Waters

Lab Sample ID: C904411-02
Sampled: 04/22/09 11:00
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904411

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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 16:53	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/28/09 17:01	JDH	
Barium [7440-39-3] ^	**27.1**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/28/09 17:01	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/28/09 17:01	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/28/09 17:01	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/28/09 17:01	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/28/09 17:01	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/28/09 17:01	JDH	
Iron [7439-89-6] ^	**730**		ug/L	1	31	50	300	EPA 6010B	04/28/09 17:01	JDH	
Lead [7439-92-1] ^	**1.6**	JB	ug/L	1	1.6	10.0	10	EPA 6010B	04/28/09 17:01	JDH	J-01
Manganese [7439-96-5] ^	**121**		ug/L	1	1.1	10.0	50	EPA 6010B	04/28/09 17:01	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	04/23/09 17:56	NLH	
Nickel [7440-02-0] ^	**0.8**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/28/09 17:01	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 17:01	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/28/09 17:01	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 16:53	VLO	
Vanadium [7440-62-2] ^	**1.2**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/28/09 17:01	JDH	
Zinc [7440-66-6] ^	**3.6**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 17:01	JDH	

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Description: 5503-SW3
Matrix: Surface Water
Project: Lincoln County LF - Surface Waters

Lab Sample ID: C904411-03
Sampled: 04/22/09 11:20
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904411

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 11:13	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 11:13	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 11:13	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 11:13	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 11:13	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 11:13	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 11:13	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 11:13	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 11:13	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 11:13	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 11:13	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 11:13	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 11:13	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 11:13	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 11:13	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 11:13	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 11:13	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 11:13	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 11:13	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 11:13	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 11:13	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 11:13	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 11:13	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 11:13	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 11:13	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 11:13	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 11:13	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 11:13	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 11:13	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 11:13	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 11:13	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 11:13	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 11:13	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 11:13	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 11:13	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 11:13	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 11:13	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 11:13	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 11:13	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 11:13	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 11:13	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 11:13	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 11:13	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 11:13	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 11:13	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 11:13	REF	

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Description:	5503-SW3	**Lab Sample ID:**	C904411-03	**Received:**	04/23/09 10:45
Matrix:	Surface Water	**Sampled:**	04/22/09 11:20	**Work Order:**	C904411
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 11:13	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*9D30015*	*EPA 8260B*	*04/30/09 11:13*	*REF*	
Dibromofluoromethane	*49*	*1*	*50.0*	*99 %*	*68-117*	*9D30015*	*EPA 8260B*	*04/30/09 11:13*	*REF*	
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*69-110*	*9D30015*	*EPA 8260B*	*04/30/09 11:13*	*REF*	

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Description:	5503-SW3	**Lab Sample ID:**	C904411-03	**Received:**	04/23/09 10:45
Matrix:	Surface Water	**Sampled:**	04/22/09 11:20	**Work Order:**	C904411
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 16:56	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/28/09 17:03	JDH	
Barium [7440-39-3] ^	**34.5**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/28/09 17:03	JDH	
Beryllium [7440-41-7] ^	**0.14**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/28/09 17:03	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/28/09 17:03	JDH	
Chromium [7440-47-3] ^	**4.4**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/28/09 17:03	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/28/09 17:03	JDH	
Copper [7440-50-8] ^	**0.93**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/28/09 17:03	JDH	
Iron [7439-89-6] ^	**1290**		ug/L	1	31	50	300	EPA 6010B	04/28/09 17:03	JDH	
Lead [7439-92-1] ^	**4.5**	JB	ug/L	1	1.6	10.0	10	EPA 6010B	04/28/09 17:03	JDH	J-01
Manganese [7439-96-5] ^	**28.6**	J	ug/L	1	1.1	10.0	50	EPA 6010B	04/28/09 17:03	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	04/23/09 17:59	NLH	
Nickel [7440-02-0] ^	**1.3**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/28/09 17:03	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 17:03	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/28/09 17:03	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 16:56	VLO	
Vanadium [7440-62-2] ^	**7.1**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/28/09 17:03	JDH	
Zinc [7440-66-6] ^	**4.5**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 17:03	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
Matrix: Surface Water
Project: Lincoln County LF - Surface Waters

Lab Sample ID: C904411-04
Sampled: 04/21/09 10:45
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904411

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 11:41	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 11:41	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 11:41	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 11:41	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 11:41	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 11:41	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 11:41	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 11:41	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 11:41	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 11:41	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 11:41	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 11:41	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 11:41	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 11:41	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 11:41	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 11:41	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 11:41	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 11:41	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 11:41	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 11:41	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 11:41	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 11:41	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 11:41	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 11:41	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 11:41	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 11:41	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 11:41	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 11:41	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 11:41	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 11:41	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 11:41	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 11:41	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 11:41	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 11:41	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 11:41	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 11:41	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 11:41	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 11:41	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 11:41	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 11:41	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 11:41	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 11:41	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 11:41	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 11:41	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 11:41	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 11:41	REF	

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Description:	5503-SW4	**Lab Sample ID:**	C904411-04	**Received:**	04/23/09 10:45
Matrix:	Surface Water	**Sampled:**	04/21/09 10:45	**Work Order:**	C904411
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 11:41	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*51-122*	*9D30015*	*EPA 8260B*	*04/30/09 11:41*	*REF*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*68-117*	*9D30015*	*EPA 8260B*	*04/30/09 11:41*	*REF*	
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*69-110*	*9D30015*	*EPA 8260B*	*04/30/09 11:41*	*REF*	

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Description:	5503-SW4	**Lab Sample ID:**	C904411-04	**Received:**	04/23/09 10:45
Matrix:	Surface Water	**Sampled:**	04/21/09 10:45	**Work Order:**	C904411
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 16:59	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/28/09 17:06	JDH	
Barium [7440-39-3] ^	**24.1**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/28/09 17:06	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/28/09 17:06	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/28/09 17:06	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/28/09 17:06	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/28/09 17:06	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/28/09 17:06	JDH	
Iron [7439-89-6] ^	**386**		ug/L	1	31	50	300	EPA 6010B	04/28/09 17:06	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/28/09 17:06	JDH	
Manganese [7439-96-5] ^	**47.3**	J	ug/L	1	1.1	10.0	50	EPA 6010B	04/28/09 17:06	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	04/23/09 18:03	NLH	
Nickel [7440-02-0] ^	0.6	U	ug/L	1	0.6	10.0	50	EPA 6010B	04/28/09 17:06	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 17:06	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/28/09 17:06	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 16:59	VLO	
Vanadium [7440-62-2] ^	**1.1**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/28/09 17:06	JDH	
Zinc [7440-66-6] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 17:06	JDH	

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Description: 5503-SW5
Matrix: Surface Water
Project: Lincoln County LF - Surface Waters

Lab Sample ID: C904411-05
Sampled: 04/21/09 10:30
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904411

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 12:10	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 12:10	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 12:10	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 12:10	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 12:10	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 12:10	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 12:10	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 12:10	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 12:10	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 12:10	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 12:10	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 12:10	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 12:10	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 12:10	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 12:10	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 12:10	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 12:10	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 12:10	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 12:10	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 12:10	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 12:10	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 12:10	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 12:10	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 12:10	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 12:10	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 12:10	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 12:10	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 12:10	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 12:10	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 12:10	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 12:10	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 12:10	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 12:10	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 12:10	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 12:10	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 12:10	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 12:10	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 12:10	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 12:10	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 12:10	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 12:10	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 12:10	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 12:10	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 12:10	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 12:10	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 12:10	REF	

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Description:	5503-SW5	**Lab Sample ID:**	C904411-05	**Received:**	04/23/09 10:45
Matrix:	Surface Water	**Sampled:**	04/21/09 10:30	**Work Order:**	C904411
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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 12:10	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*103 %*	*51-122*	*9D30015*	*EPA 8260B*	*04/30/09 12:10*	*REF*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*9D30015*	*EPA 8260B*	*04/30/09 12:10*	*REF*	
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*69-110*	*9D30015*	*EPA 8260B*	*04/30/09 12:10*	*REF*	

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Description:	5503-SW5	**Lab Sample ID:**	C904411-05	**Received:**	04/23/09 10:45
Matrix:	Surface Water	**Sampled:**	04/21/09 10:30	**Work Order:**	C904411
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
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 17:03	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/28/09 17:08	JDH	
Barium [7440-39-3] ^	**62.6**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/28/09 17:08	JDH	
Beryllium [7440-41-7] ^	**0.19**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/28/09 17:08	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/28/09 17:08	JDH	
Chromium [7440-47-3] ^	**2.1**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/28/09 17:08	JDH	
Cobalt [7440-48-4] ^	**23.6**		ug/L	1	0.6	10.0	10	EPA 6010B	04/28/09 17:08	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/28/09 17:08	JDH	
Iron [7439-89-6] ^	**18700**		ug/L	1	31	50	300	EPA 6010B	04/28/09 17:08	JDH	
Lead [7439-92-1] ^	**3.5**	JB	ug/L	1	1.6	10.0	10	EPA 6010B	04/28/09 17:08	JDH	J-01
Manganese [7439-96-5] ^	**1300**		ug/L	1	1.1	10.0	50	EPA 6010B	04/28/09 17:08	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	04/23/09 18:06	NLH	
Nickel [7440-02-0] ^	**2.9**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/28/09 17:08	JDH	
Selenium [7782-49-2] ^	**5.5**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 17:08	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/28/09 17:08	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 17:03	VLO	
Vanadium [7440-62-2] ^	**4.3**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/28/09 17:08	JDH	
Zinc [7440-66-6] ^	**9.3**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 17:08	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 9D30015 - EPA 5030B_MS

Blank (9D30015-BLK1) Prepared: 04/30/2009 02:19 Analyzed: 04/30/2009 02:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	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	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	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	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*104*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D30015 - EPA 5030B_MS

Blank (9D30015-BLK1) Continued Prepared: 04/30/2009 02:19 Analyzed: 04/30/2009 02:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*103*	*68-117*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*108*	*69-110*			

LCS (9D30015-BS1) Prepared: 04/30/2009 02:19 Analyzed: 04/30/2009 07:56

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		100	75-133			
Benzene	20		1.0	ug/L	20.0		101	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		106	83-117			
Toluene	20		1.0	ug/L	20.0		102	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	75-115			

Matrix Spike (9D30015-MS1) Prepared: 04/30/2009 02:19 Analyzed: 04/30/2009 08:24

Source: C904790-11

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	0.24 U	101	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	97	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	103	83-117			
Toluene	21		1.0	ug/L	20.0	0.27 U	103	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	95	75-115			

Matrix Spike Dup (9D30015-MSD1) Prepared: 04/30/2009 02:19 Analyzed: 04/30/2009 08:52

Source: C904790-11

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	0.24 U	97	75-133	4	20	
Benzene	20		1.0	ug/L	20.0	0.20 U	99	81-134	3	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	103	83-117	0.05	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	102	71-118	0.8	17	
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	99	75-115	4	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D23026 - EPA 245.1

Blank (9D23026-BLK1) Prepared: 04/23/2009 11:24 Analyzed: 04/23/2009 16:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (9D23026-BS1) Prepared: 04/23/2009 11:24 Analyzed: 04/23/2009 16:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.10		0.20	ug/L	5.00		102	85-115			

Matrix Spike (9D23026-MS1) Prepared: 04/23/2009 11:24 Analyzed: 04/23/2009 16:57

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D23026 - EPA 245.1

Matrix Spike (9D23026-MS1) Continued Prepared: 04/23/2009 11:24 Analyzed: 04/23/2009 16:57

Source: C904691-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.22		0.20	ug/L	5.00	0.11 U	104	85-115			

Matrix Spike Dup (9D23026-MSD1) Prepared: 04/23/2009 11:24 Analyzed: 04/23/2009 17:00

Source: C904691-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.71		0.20	ug/L	5.00	0.11 U	94	85-115	10	15	

Post Spike (9D23026-PS1) Prepared: 04/23/2009 11:24 Analyzed: 04/23/2009 17:03

Source: C904691-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.87		0.20	ug/L	5.00	-0.09	79	75-125			

Batch 9D27008 - EPA 3005A

Blank (9D27008-BLK1) Prepared: 04/27/2009 10:26 Analyzed: 04/28/2009 16:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	4.20	U	10.0	ug/L							
Beryllium	0.08	U	1.00	ug/L							
Cadmium	0.09	U	1.00	ug/L							
Chromium	0.7	U	10.0	ug/L							
Cobalt	0.6	U	10.0	ug/L							
Copper	0.81	U	10.0	ug/L							
Iron	31	U	50	ug/L							
Lead	**1.7**	**J**	10.0	ug/L							
Manganese	1.1	U	10.0	ug/L							
Nickel	0.6	U	10.0	ug/L							
Selenium	3.4	U	10.0	ug/L							
Silver	1.0	U	10.0	ug/L							
Vanadium	0.7	U	10.0	ug/L							
Zinc	3.4	U	10.0	ug/L							

LCS (9D27008-BS1) Prepared: 04/27/2009 10:26 Analyzed: 04/28/2009 16:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1070		10.0	ug/L	1000		107	80-120			
Barium	1060		10.0	ug/L	1000		106	80-120			
Beryllium	544		1.00	ug/L	500		109	80-120			
Cadmium	521		1.00	ug/L	500		104	80-120			
Chromium	1050		10.0	ug/L	1000		105	80-120			
Cobalt	1040		10.0	ug/L	1000		104	80-120			
Copper	523		10.0	ug/L	500		105	80-120			
Iron	10700		50	ug/L	10000		107	80-120			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D27008 - EPA 3005A

LCS (9D27008-BS1) Continued Prepared: 04/27/2009 10:26 Analyzed: 04/28/2009 16:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	1070	B	10.0	ug/L	1000		107	80-120			
Manganese	524		10.0	ug/L	500		105	80-120			
Nickel	1080		10.0	ug/L	1000		108	80-120			
Selenium	1110		10.0	ug/L	1000		111	80-120			
Silver	109		10.0	ug/L	100		109	80-120			
Vanadium	534		10.0	ug/L	500		107	80-120			
Zinc	1090		10.0	ug/L	1000		109	80-120			

Matrix Spike (9D27008-MS1) Prepared: 04/27/2009 10:26 Analyzed: 04/28/2009 16:14

Source: C904182-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1100		10.0	ug/L	1000	38.5	106	75-125			
Barium	1130		10.0	ug/L	1000	107	103	75-125			
Beryllium	525		1.00	ug/L	500	0.16	105	75-125			
Cadmium	505		1.00	ug/L	500	0.09 U	101	75-125			
Chromium	1040		10.0	ug/L	1000	6.5	103	75-125			
Cobalt	1550		10.0	ug/L	1000	560	99	75-125			
Copper	524		10.0	ug/L	500	9.76	103	75-125			
Iron	113000		50	ug/L	10000	103000	94	75-125			
Lead	1060	B	10.0	ug/L	1000	12.0	104	75-125			
Manganese	19900		10.0	ug/L	500	19800	23	75-125			QM-07
Nickel	1050		10.0	ug/L	1000	7.4	104	75-125			
Selenium	1120		10.0	ug/L	1000	19.2	110	75-125			
Silver	112		10.0	ug/L	100	4.2	108	75-125			
Vanadium	526		10.0	ug/L	500	0.7 U	105	75-125			
Zinc	1060		10.0	ug/L	1000	24.4	104	75-125			

Matrix Spike Dup (9D27008-MSD1) Prepared: 04/27/2009 10:26 Analyzed: 04/28/2009 16:23

Source: C904182-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1100		10.0	ug/L	1000	38.5	107	75-125	0.3	25	
Barium	1140		10.0	ug/L	1000	107	104	75-125	0.9	25	
Beryllium	537		1.00	ug/L	500	0.16	107	75-125	2	25	
Cadmium	509		1.00	ug/L	500	0.09 U	102	75-125	0.9	25	
Chromium	1050		10.0	ug/L	1000	6.5	104	75-125	1	25	
Cobalt	1550		10.0	ug/L	1000	560	99	75-125	0.2	25	
Copper	530		10.0	ug/L	500	9.76	104	75-125	1	25	
Iron	112000		50	ug/L	10000	103000	85	75-125	0.8	25	
Lead	1060	B	10.0	ug/L	1000	12.0	105	75-125	0.5	25	
Manganese	20000		10.0	ug/L	500	19800	36	75-125	0.3	25	QM-07
Nickel	1060		10.0	ug/L	1000	7.4	105	75-125	1	25	
Selenium	1120		10.0	ug/L	1000	19.2	110	75-125	0.8	25	
Silver	112		10.0	ug/L	100	4.2	108	75-125	0.4	25	
Vanadium	533		10.0	ug/L	500	0.7 U	107	75-125	1	25	
Zinc	1070		10.0	ug/L	1000	24.4	105	75-125	1	25	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D27008 - EPA 3005A

Post Spike (9D27008-PS1) Prepared: 04/27/2009 10:26 Analyzed: 04/28/2009 16:25

Source: C904182-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.1		0.01	mg/L	1.00	0.04	101	75-125			
Barium	1.08		0.01	mg/L	1.00	0.11	97	75-125			
Beryllium	0.50		0.001	mg/L	0.500	0.0002	100	75-125			
Cadmium	0.48		0.001	mg/L	0.500	-0.00009	96	75-125			
Chromium	1.0		0.01	mg/L	1.00	0.006	98	75-125			
Cobalt	1.5		0.01	mg/L	1.00	0.6	93	75-125			
Copper	0.50		0.01	mg/L	0.500	0.01	98	75-125			
Iron	111		0.05	mg/L	10.0	103	75	75-125			
Lead	1.0	B	0.01	mg/L	1.00	0.01	99	75-125			
Manganese	19.7		0.01	mg/L	0.500	19.8	NR	75-125			QM-08
Nickel	1.0		0.01	mg/L	1.00	0.007	99	75-125			
Selenium	1.1		0.01	mg/L	1.00	0.02	105	75-125			
Silver	0.1		0.01	mg/L	0.100	0.004	104	75-125			
Vanadium	0.5		0.01	mg/L	0.500	-0.001	100	75-125			
Zinc	1.0		0.01	mg/L	1.00	0.02	99	75-125			

Batch 9D27019 - EPA 3005A

Blank (9D27019-BLK1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 14:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.68	U	2.00	ug/L							
Thallium	0.036	U	1.00	ug/L							

LCS (9D27019-BS1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 14:13

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	85-115			
Thallium	25.9		1.00	ug/L	25.0		103	85-115			

Matrix Spike (9D27019-MS1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 16:08

Source: C904411-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.2		2.00	ug/L	25.0	0.68 U	105	85-115			
Thallium	26.5		1.00	ug/L	25.0	1.91	98	85-115			

Matrix Spike Dup (9D27019-MSD1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 16:11

Source: C904411-01

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	0.68 U	105	85-115	0.3	20	
Thallium	25.8		1.00	ug/L	25.0	1.91	96	85-115	2	20	

Post Spike (9D27019-PS1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 16:15

Source: C904411-01

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D27019 - EPA 3005A

Post Spike (9D27019-PS1) Continued Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 16:15

Source: C904411-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.03		0.002	mg/L	0.0250	-0.00002	105	75-125			
Thallium	0.026		0.001	mg/L	0.0250	0.002	95	75-125			

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-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).

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 - Surface Waters
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: ~~47789~~ 49080
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Courtney Withers	Billing Contact: Accounts Payable
Sampler(s) Signature: Courtney R. Withers	Facility # (if required): 5503

Requested Analyses: 8260B Appendix 1; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C904411

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,Hg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn									Sample Comments
	5503-SW1	4/22/09	1050	G	SW	4	X	X									2 voa vials only
	5503-SW2	4/22/09	1100	G	SW	4	X	X									
	5503-SW3	4/22/09	1120	G	SW	4	X	X									
	5503-SW4	4/21/09	1045	G	SW	4	X	X									
	5503-SW5	4/21/09	1030	G	SW	4	X	X									

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
B. Scott	4/14/09 16:20	Courtney R. Withers	4/22/09 1400	Briana Duguay	4/23/09 10:45
Comments:		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-564 2.4°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.

Sample preservation verification

☒ Cary ☐ Jacksonville ☐ Orlando

Work order: C904411 Page: 1 of 1 Initials: BJG Date: 4/23/09

A check mark (✓) in any space under the appropriate column heading for the selected sample indicates that the pH met the required pH.
An asterisk (*) in any space under the appropriate column heading for the selected sample indicates that the pH was adjusted in the lab as described in the comments column.

Sample No	Metals	TPH	Ammonia	COD	Cyanide	TOC	Hardness	TKN/TON	Oil & grease	Phenolics	NOx	Extractables	Sulfide	FL-PRO	COMMENTS
pH →	<2	<2	<2	<2	>12	<2	<2	<2	<2	<2	<2	5-9	>9	<2	
- 1	✓														
- 2	✓														
- 3	✓														
- 4	✓														
- 5	✓														
- 6															
- 7															
- 8															
- 9															
- 0															
- 1															
- 2															
- 3															
- 4															
- 5															
- 6															
- 7															
- 8															
- 9															
- 0															
- 1															
- 2															
- 3															
- 4															
- 5															
- 6															
- 7															
- 8															
- 9															
- 0															

	Reagent name	ID		Reagent name	ID		Reagent name	ID
1			3			5		
2			4			6		

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

Friday, May 1, 2009

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: C904410

Dear Courtney Withers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, April 23, 2009.

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 22.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 5503-Lift Station **Lab ID:** C904410-01 **Sampled:** 04/22/09 09:15 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/20/09			04/23/09	14:27	4/24/2009 10:26
EPA 353.2	04/24/09	09:15		04/23/09	17:29	4/23/2009 18:09
EPA 353.2	05/20/09			04/26/09	13:04	4/26/2009 16:50
EPA 353.2	05/20/09			04/27/09	12:53	4/27/2009 12:53
EPA 365.4	05/20/09			04/24/09	10:51	4/27/2009 11:53
EPA 6010B	10/19/09			04/27/09	10:19	4/28/2009 15:57
EPA 6020	10/19/09			04/27/09	12:43	4/28/2009 16:49
EPA 8260B	05/06/09			05/01/09	09:05	5/1/2009 15:31
SM 2540D	04/29/09			04/24/09	13:20	4/28/2009 14:23
SM 5210B	04/24/09	09:15	04/28/09	04/23/09	17:00	4/28/2009 17:32

Client ID: 5503-Lift Station **Lab ID:** C904410-01RE1 **Sampled:** 04/22/09 09:15 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
SM 5220D	05/20/09		04/27/09	12:35	4/28/2009 14:45

Client ID: 5503-Lift Station **Lab ID:** C904410-01RE2 **Sampled:** 04/22/09 09:15 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 310.2	05/06/09		04/28/09	06:34	4/28/2009 08:14

Client ID: 5503-Trip Blank **Lab ID:** C904410-02 **Sampled:** 04/22/09 09:15 **Received:** 04/23/09 10:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	05/06/09		04/30/09	08:19	4/30/2009 09:48

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 5503-Lift Station **Lab ID:** C904410-01

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
2-Butanone	2400	D	10	10	50	100	ug/L	EPA 8260B	R-05
2-Hexanone	170	D	10	6.9	50	50	ug/L	EPA 8260B	R-05
4-Methyl-2-pentanone	21	JD	10	11	50	100	ug/L	EPA 8260B	R-05
Acetone	950	D	10	15	50	100	ug/L	EPA 8260B	R-05
Antimony - Total	5.05	J	1	0.68	2.00	6	ug/L	EPA 6020	
Arsenic - Total	23.1		1	2.8	10.0	10	ug/L	EPA 6010B	
Barium - Total	484		1	4.20	10.0	100	ug/L	EPA 6010B	
Chromium - Total	36.6		1	0.7	10.0	10	ug/L	EPA 6010B	
Cobalt - Total	70.6		1	0.6	10.0	10	ug/L	EPA 6010B	
Lead - Total	9.1	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Methylene chloride	17	JD	10	5.3	20	1	ug/L	EPA 8260B	R-05
Nickel - Total	54.5		1	0.6	10.0	50	ug/L	EPA 6010B	
Nitrate as N	0.052	J	1	0.010	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.052	J	1	0.017	0.10	NE	mg/L	EPA 353.2	
Phosphorus	1.8	D	14.6	0.73	1.5	NE	mg/L	EPA 365.4	
Selenium - Total	24.0		1	3.4	10.0	10	ug/L	EPA 6010B	
Silver - Total	6.6	J	1	1.0	10.0	10	ug/L	EPA 6010B	
Sulfate as SO4	20	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Toluene	11	D	10	2.7	10	1	ug/L	EPA 8260B	R-05
Total Suspended Solids	11000		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	10.3	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	566		1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 5503-Lift Station **Lab ID:** C904410-01RE1

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chemical Oxygen Demand	2600		1	12	40	NE	mg/L	SM 5220D	

Client ID: 5503-Lift Station **Lab ID:** C904410-01RE2

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Total Alkalinity	980	D	5	42	75	NE	mg/L	EPA 310.2	

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ANALYTICAL RESULTS

Description: 5503-Lift Station
Matrix: Ground Water
Project: Lincoln County LF - Leachate

Lab Sample ID: C904410-01
Sampled: 04/22/09 09:15
Sampled By: Courtney Withers

Received: 04/23/09 10:45
Work Order: C904410

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] ^	4.0	UD	ug/L	10	4.0	10	5	EPA 8260B	05/01/09 15:31	JKG	R-05
1,1,1-Trichloroethane [71-55-6] ^	2.7	UD	ug/L	10	2.7	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
1,1,2,2-Tetrachloroethane [79-34-5] ^	3.3	UD	ug/L	10	3.3	10	3	EPA 8260B	05/01/09 15:31	JKG	R-05
1,1,2-Trichloroethane [79-00-5] ^	3.7	UD	ug/L	10	3.7	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
1,1-Dichloroethane [75-34-3] ^	3.3	UD	ug/L	10	3.3	10	5	EPA 8260B	05/01/09 15:31	JKG	R-05
1,1-Dichloroethene [75-35-4] ^	2.4	UD	ug/L	10	2.4	10	5	EPA 8260B	05/01/09 15:31	JKG	R-05
1,2,3-Trichloropropane [96-18-4] ^	5.5	UD	ug/L	10	5.5	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
1,2-Dibromo-3-chloropropane [96-12-8] ^	4.8	UD	ug/L	10	4.8	10	13	EPA 8260B	05/01/09 15:31	JKG	R-05
1,2-Dibromoethane [106-93-4] ^	4.2	UD	ug/L	10	4.2	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
1,2-Dichlorobenzene [95-50-1] ^	2.7	UD	ug/L	10	2.7	10	5	EPA 8260B	05/01/09 15:31	JKG	R-05
1,2-Dichloroethane [107-06-2] ^	6.5	UD	ug/L	10	6.5	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
1,2-Dichloropropane [78-87-5] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
1,4-Dichlorobenzene [106-46-7] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
2-Butanone [78-93-3] ^	**2400**	D	ug/L	10	10	50	100	EPA 8260B	05/01/09 15:31	JKG	R-05
2-Hexanone [591-78-6] ^	**170**	D	ug/L	10	6.9	50	50	EPA 8260B	05/01/09 15:31	JKG	R-05
4-Methyl-2-pentanone [108-10-1] ^	**21**	JD	ug/L	10	11	50	100	EPA 8260B	05/01/09 15:31	JKG	R-05
Acetone [67-64-1] ^	**950**	D	ug/L	10	15	50	100	EPA 8260B	05/01/09 15:31	JKG	R-05
Acrylonitrile [107-13-1] ^	21	UD	ug/L	10	21	50	200	EPA 8260B	05/01/09 15:31	JKG	R-05
Benzene [71-43-2] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
Bromochloromethane [74-97-5] ^	4.2	UD	ug/L	10	4.2	10	3	EPA 8260B	05/01/09 15:31	JKG	R-05
Bromodichloromethane [75-27-4] ^	3.7	UD	ug/L	10	3.7	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
Bromoform [75-25-2] ^	7.1	UD	ug/L	10	7.1	10	3	EPA 8260B	05/01/09 15:31	JKG	R-05
Bromomethane [74-83-9] ^	4.9	UD	ug/L	10	4.9	10	10	EPA 8260B	05/01/09 15:31	JKG	R-05
Carbon disulfide [75-15-0] ^	5.4	UD	ug/L	10	5.4	50	100	EPA 8260B	05/01/09 15:31	JKG	R-05
Carbon tetrachloride [56-23-5] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
Chlorobenzene [108-90-7] ^	2.7	UD	ug/L	10	2.7	10	3	EPA 8260B	05/01/09 15:31	JKG	R-05
Chloroethane [75-00-3] ^	3.0	UD	ug/L	10	3.0	10	10	EPA 8260B	05/01/09 15:31	JKG	R-05
Chloroform [67-66-3] ^	2.0	UD	ug/L	10	2.0	10	5	EPA 8260B	05/01/09 15:31	JKG	R-05
Chloromethane [74-87-3] ^	3.4	UD	ug/L	10	3.4	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
cis-1,2-Dichloroethene [156-59-2] ^	3.6	UD	ug/L	10	3.6	10	5	EPA 8260B	05/01/09 15:31	JKG	R-05
cis-1,3-Dichloropropene [10061-01-5] ^	2.8	UD	ug/L	10	2.8	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
Dibromochloromethane [124-48-1] ^	3.2	UD	ug/L	10	3.2	10	3	EPA 8260B	05/01/09 15:31	JKG	R-05
Dibromomethane [74-95-3] ^	3.7	UD	ug/L	10	3.7	10	10	EPA 8260B	05/01/09 15:31	JKG	R-05
Ethylbenzene [100-41-4] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
Iodomethane [74-88-4] ^	5.2	UD	ug/L	10	5.2	20	10	EPA 8260B	05/01/09 15:31	JKG	R-05
Methylene chloride [75-09-2] ^	**17**	JD	ug/L	10	5.3	20	1	EPA 8260B	05/01/09 15:31	JKG	R-05
Styrene [100-42-5] ^	2.6	UD	ug/L	10	2.6	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
Tetrachloroethene [127-18-4] ^	3.6	UD	ug/L	10	3.6	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
Toluene [108-88-3] ^	**11**	D	ug/L	10	2.7	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
trans-1,2-Dichloroethene [156-60-5] ^	3.4	UD	ug/L	10	3.4	10	5	EPA 8260B	05/01/09 15:31	JKG	R-05
trans-1,3-Dichloropropene [10061-02-6] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
trans-1,4-Dichloro-2-butene [110-57-6] ^	5.4	UD	ug/L	10	5.4	10	100	EPA 8260B	05/01/09 15:31	JKG	R-05
Trichloroethene [79-01-6] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05

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Description:	5503-Lift Station	**Lab Sample ID:**	C904410-01	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 09:15	**Work Order:**	C904410
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
Trichlorofluoromethane [75-69-4] ^	2.8	UD	ug/L	10	2.8	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
Vinyl acetate [108-05-4] ^	9.8	UD	ug/L	10	9.8	20	50	EPA 8260B	05/01/09 15:31	JKG	R-05
Vinyl chloride [75-01-4] ^	3.0	UD	ug/L	10	3.0	10	1	EPA 8260B	05/01/09 15:31	JKG	R-05
Xylenes (Total) [1330-20-7] ^	4.0	UD	ug/L	10	4.0	10	5	EPA 8260B	05/01/09 15:31	JKG	R-05

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9E01003*	*EPA 8260B*	*05/01/09 15:31*	*JKG*	*R-05*
Dibromofluoromethane	*49*	*1*	*50.0*	*97 %*	*68-117*	*9E01003*	*EPA 8260B*	*05/01/09 15:31*	*JKG*	*R-05*
Toluene-d8	*51*	*1*	*50.0*	*103 %*	*69-110*	*9E01003*	*EPA 8260B*	*05/01/09 15:31*	*JKG*	*R-05*

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Description:	5503-Lift Station	**Lab Sample ID:**	C904410-01	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 09:15	**Work Order:**	C904410
Project:	Lincoln County LF - Leachate	**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
Antimony [7440-36-0] ^	**5.05**	J	ug/L	1	0.68	2.00	6	EPA 6020	04/28/09 16:49	VLO	
Arsenic [7440-38-2] ^	**23.1**		ug/L	1	2.8	10.0	10	EPA 6010B	04/28/09 15:57	JDH	
Barium [7440-39-3] ^	**484**		ug/L	1	4.20	10.0	100	EPA 6010B	04/28/09 15:57	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/28/09 15:57	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/28/09 15:57	JDH	
Chromium [7440-47-3] ^	**36.6**		ug/L	1	0.7	10.0	10	EPA 6010B	04/28/09 15:57	JDH	
Cobalt [7440-48-4] ^	**70.6**		ug/L	1	0.6	10.0	10	EPA 6010B	04/28/09 15:57	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/28/09 15:57	JDH	
Lead [7439-92-1] ^	**9.1**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/28/09 15:57	JDH	
Nickel [7440-02-0] ^	**54.5**		ug/L	1	0.6	10.0	50	EPA 6010B	04/28/09 15:57	JDH	
Selenium [7782-49-2] ^	**24.0**		ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:57	JDH	
Silver [7440-22-4] ^	**6.6**	J	ug/L	1	1.0	10.0	10	EPA 6010B	04/28/09 15:57	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/28/09 16:49	VLO	
Vanadium [7440-62-2] ^	**10.3**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/28/09 15:57	JDH	
Zinc [7440-66-6] ^	**566**		ug/L	1	3.4	10.0	10	EPA 6010B	04/28/09 15:57	JDH	

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Description:	5503-Lift Station	**Lab Sample ID:**	C904410-01	**Received:**	04/23/09 10:45
Matrix:	Ground Water	**Sampled:**	04/22/09 09:15	**Work Order:**	C904410
Project:	Lincoln County LF - Leachate	**Sampled By:**	Courtney Withers		

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] ^	>210		mg/L	1	2.0	2.0	NE	SM 5210B	04/28/09 17:32	GPW	B-02
Chemical Oxygen Demand [ECL-0035] ^	**2600**		mg/L	1	12	40	NE	SM 5220D	04/28/09 14:45	GPW	
Nitrate as N [14797-55-8] ^	**0.052**	J	mg/L	1	0.010	0.10	10	EPA 353.2	04/27/09 12:53	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.052**	J	mg/L	1	0.017	0.10	NE	EPA 353.2	04/26/09 16:50	PEV	
Nitrite as N [14797-65-0] ^	0.010	U	mg/L	1	0.010	0.10	1	EPA 353.2	04/23/09 18:09	AJB	
Phosphorus [7723-14-0] ^	**1.8**	D	mg/L	14.55	0.73	1.5	NE	EPA 365.4	04/27/09 11:53	PEV	
Sulfate as SO4 [14808-79-8] ^	**20**	J	mg/L	1	0.078	5.0	250	EPA 300.0	04/24/09 10:26	AJB	
Total Alkalinity [471-34-1] ^	**980**	D	mg/L	5	42	75	NE	EPA 310.2	04/28/09 08:14	PEV	
Total Suspended Solids [ECL-0169] ^	**11000**		mg/L	1	1.0	1.0	NE	SM 2540D	04/28/09 14:23	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
Matrix: Water
Project: Lincoln County LF - Leachate

Lab Sample ID: C904410-02
Sampled: 04/22/09 09:15
Sampled By: ENCO

Received: 04/23/09 10:45
Work Order: C904410

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 09:48	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 09:48	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/30/09 09:48	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 09:48	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/30/09 09:48	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/30/09 09:48	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/30/09 09:48	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/30/09 09:48	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/30/09 09:48	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/30/09 09:48	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/30/09 09:48	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 09:48	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 09:48	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/30/09 09:48	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/30/09 09:48	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/30/09 09:48	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/30/09 09:48	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/30/09 09:48	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 09:48	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/30/09 09:48	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/30/09 09:48	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/30/09 09:48	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/30/09 09:48	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/30/09 09:48	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 09:48	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/30/09 09:48	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/30/09 09:48	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/30/09 09:48	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/30/09 09:48	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/30/09 09:48	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 09:48	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/30/09 09:48	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/30/09 09:48	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/30/09 09:48	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/30/09 09:48	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/30/09 09:48	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/30/09 09:48	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/30/09 09:48	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/30/09 09:48	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/30/09 09:48	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 09:48	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/30/09 09:48	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/30/09 09:48	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/30/09 09:48	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/30/09 09:48	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/30/09 09:48	REF	

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Description:	5503-Trip Blank	**Lab Sample ID:**	C904410-02	**Received:**	04/23/09 10:45
Matrix:	Water	**Sampled:**	04/22/09 09:15	**Work Order:**	C904410
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
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/30/09 09:48	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*105 %*	*51-122*	*9D30015*	*EPA 8260B*	*04/30/09 09:48*	*REF*	
Dibromofluoromethane	*49*	*1*	*50.0*	*99 %*	*68-117*	*9D30015*	*EPA 8260B*	*04/30/09 09:48*	*REF*	
Toluene-d8	*55*	*1*	*50.0*	*109 %*	*69-110*	*9D30015*	*EPA 8260B*	*04/30/09 09:48*	*REF*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D30015 - EPA 5030B_MS

Blank (9D30015-BLK1) Prepared: 04/30/2009 02:19 Analyzed: 04/30/2009 02:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	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	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	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	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*104*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D30015 - EPA 5030B_MS

Blank (9D30015-BLK1) Continued Prepared: 04/30/2009 02:19 Analyzed: 04/30/2009 02:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*103*	*68-117*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*108*	*69-110*			

LCS (9D30015-BS1) Prepared: 04/30/2009 02:19 Analyzed: 04/30/2009 07:56

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		100	75-133			
Benzene	20		1.0	ug/L	20.0		101	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		106	83-117			
Toluene	20		1.0	ug/L	20.0		102	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	75-115			

Matrix Spike (9D30015-MS1) Prepared: 04/30/2009 02:19 Analyzed: 04/30/2009 08:24

Source: C904790-11

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	0.24 U	101	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	97	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	103	83-117			
Toluene	21		1.0	ug/L	20.0	0.27 U	103	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	95	75-115			

Matrix Spike Dup (9D30015-MSD1) Prepared: 04/30/2009 02:19 Analyzed: 04/30/2009 08:52

Source: C904790-11

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	0.24 U	97	75-133	4	20	
Benzene	20		1.0	ug/L	20.0	0.20 U	99	81-134	3	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	103	83-117	0.05	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	102	71-118	0.8	17	
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	99	75-115	4	18	

Batch 9E01003 - EPA 5030B_MS

Blank (9E01003-BLK1) Prepared: 05/01/2009 09:05 Analyzed: 05/01/2009 11:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	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	0.27	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9E01003 - EPA 5030B_MS

Blank (9E01003-BLK1) Continued Prepared: 05/01/2009 09:05 Analyzed: 05/01/2009 11:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	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	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*99*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*69-110*			

LCS (9E01003-BS1) Prepared: 05/01/2009 09:05 Analyzed: 05/01/2009 12:28

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		113	75-133			
Benzene	22		1.0	ug/L	20.0		108	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		102	83-117			
Toluene	20		1.0	ug/L	20.0		100	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9E01003 - EPA 5030B_MS

LCS (9E01003-BS1) Continued Prepared: 05/01/2009 09:05 Analyzed: 05/01/2009 12:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	21		1.0	ug/L	20.0		103	75-115			

Matrix Spike (9E01003-MS1) Prepared: 05/01/2009 09:05 Analyzed: 05/01/2009 12:58

Source: C904790-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.24 U	113	75-133			
Benzene	22		1.0	ug/L	20.0	0.20 U	111	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	106	83-117			
Toluene	20		1.0	ug/L	20.0	0.27 U	102	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	105	75-115			

Matrix Spike Dup (9E01003-MSD1) Prepared: 05/01/2009 09:05 Analyzed: 05/01/2009 13:29

Source: C904790-14

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	0.24 U	110	75-133	2	20	
Benzene	22		1.0	ug/L	20.0	0.20 U	111	81-134	0.4	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	105	83-117	0.4	16	
Toluene	21		1.0	ug/L	20.0	0.27 U	104	71-118	2	17	
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	105	75-115	0.1	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D27007 - EPA 3005A

Blank (9D27007-BLK1) Prepared: 04/27/2009 10:19 Analyzed: 04/28/2009 14:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	4.20	U	10.0	ug/L							
Beryllium	0.08	U	1.00	ug/L							
Cadmium	0.09	U	1.00	ug/L							
Chromium	0.7	U	10.0	ug/L							
Cobalt	0.6	U	10.0	ug/L							
Copper	0.81	U	10.0	ug/L							
Lead	1.6	U	10.0	ug/L							
Nickel	0.6	U	10.0	ug/L							
Selenium	3.4	U	10.0	ug/L							
Silver	1.0	U	10.0	ug/L							
Vanadium	0.7	U	10.0	ug/L							
Zinc	3.4	U	10.0	ug/L							

LCS (9D27007-BS1) Prepared: 04/27/2009 10:19 Analyzed: 04/28/2009 14:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1060		10.0	ug/L	1000		106	80-120			
Barium	1060		10.0	ug/L	1000		106	80-120			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D27007 - EPA 3005A

LCS (9D27007-BS1) Continued Prepared: 04/27/2009 10:19 Analyzed: 04/28/2009 14:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Beryllium	530		1.00	ug/L	500		106	80-120			
Cadmium	527		1.00	ug/L	500		105	80-120			
Chromium	1080		10.0	ug/L	1000		108	80-120			
Cobalt	1040		10.0	ug/L	1000		104	80-120			
Copper	537		10.0	ug/L	500		107	80-120			
Lead	1070		10.0	ug/L	1000		107	80-120			
Nickel	1080		10.0	ug/L	1000		108	80-120			
Selenium	1110		10.0	ug/L	1000		111	80-120			
Silver	112		10.0	ug/L	100		112	80-120			
Vanadium	547		10.0	ug/L	500		109	80-120			
Zinc	1090		10.0	ug/L	1000		109	80-120			

Matrix Spike (9D27007-MS1) Prepared: 04/27/2009 10:19 Analyzed: 04/28/2009 15:01

Source: C904736-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1060		10.0	ug/L	1000	2.8 U	106	75-125			
Barium	1080		10.0	ug/L	1000	26.3	105	75-125			
Beryllium	535		1.00	ug/L	500	0.08 U	107	75-125			
Cadmium	517		1.00	ug/L	500	0.19	103	75-125			
Chromium	1070		10.0	ug/L	1000	1.6	107	75-125			
Cobalt	1030		10.0	ug/L	1000	1.1	103	75-125			
Copper	882		10.0	ug/L	500	334	110	75-125			
Lead	1060		10.0	ug/L	1000	13.7	105	75-125			
Nickel	1080		10.0	ug/L	1000	15.7	107	75-125			
Selenium	1110		10.0	ug/L	1000	3.4 U	111	75-125			
Silver	114		10.0	ug/L	100	2.2	112	75-125			
Vanadium	545		10.0	ug/L	500	0.7 U	109	75-125			
Zinc	1260		10.0	ug/L	1000	171	109	75-125			

Matrix Spike Dup (9D27007-MSD1) Prepared: 04/27/2009 10:19 Analyzed: 04/28/2009 15:03

Source: C904736-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1050		10.0	ug/L	1000	2.8 U	105	75-125	1	25	
Barium	1060		10.0	ug/L	1000	26.3	103	75-125	2	25	
Beryllium	534		1.00	ug/L	500	0.08 U	107	75-125	0.3	25	
Cadmium	505		1.00	ug/L	500	0.19	101	75-125	2	25	
Chromium	1030		10.0	ug/L	1000	1.6	103	75-125	4	25	
Cobalt	1020		10.0	ug/L	1000	1.1	101	75-125	2	25	
Copper	848		10.0	ug/L	500	334	103	75-125	4	25	
Lead	1050		10.0	ug/L	1000	13.7	104	75-125	1	25	
Nickel	1070		10.0	ug/L	1000	15.7	105	75-125	2	25	
Selenium	1090		10.0	ug/L	1000	3.4 U	109	75-125	2	25	
Silver	108		10.0	ug/L	100	2.2	106	75-125	5	25	
Vanadium	526		10.0	ug/L	500	0.7 U	105	75-125	4	25	
Zinc	1240		10.0	ug/L	1000	171	106	75-125	2	25	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D27007 - EPA 3005A

Post Spike (9D27007-PS1) Prepared: 04/27/2009 10:19 Analyzed: 04/28/2009 15:05

Source: C904736-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.0		0.01	mg/L	1.00	-0.0003	99	75-125			
Barium	0.99		0.01	mg/L	1.00	0.03	97	75-125			
Beryllium	0.50		0.001	mg/L	0.500	0.00007	100	75-125			
Cadmium	0.47		0.001	mg/L	0.500	0.0002	95	75-125			
Chromium	1.0		0.01	mg/L	1.00	0.002	97	75-125			
Cobalt	1.0		0.01	mg/L	1.00	0.001	95	75-125			
Copper	0.81		0.01	mg/L	0.500	0.33	96	75-125			
Lead	1.0		0.01	mg/L	1.00	0.01	98	75-125			
Nickel	1.0		0.01	mg/L	1.00	0.02	99	75-125			
Selenium	1.0		0.01	mg/L	1.00	0.003	102	75-125			
Silver	0.1		0.01	mg/L	0.100	0.002	101	75-125			
Vanadium	0.5		0.01	mg/L	0.500	0.0004	99	75-125			
Zinc	1.2		0.01	mg/L	1.00	0.2	99	75-125			

Batch 9D27019 - EPA 3005A

Blank (9D27019-BLK1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 14:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.68	U	2.00	ug/L							
Thallium	0.036	U	1.00	ug/L							

LCS (9D27019-BS1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 14:13

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	85-115			
Thallium	25.9		1.00	ug/L	25.0		103	85-115			

Matrix Spike (9D27019-MS1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 16:08

Source: C904411-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.2		2.00	ug/L	25.0	0.68 U	105	85-115			
Thallium	26.5		1.00	ug/L	25.0	1.91	98	85-115			

Matrix Spike Dup (9D27019-MSD1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 16:11

Source: C904411-01

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	0.68 U	105	85-115	0.3	20	
Thallium	25.8		1.00	ug/L	25.0	1.91	96	85-115	2	20	

Post Spike (9D27019-PS1) Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 16:15

Source: C904411-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D27019 - EPA 3005A

Post Spike (9D27019-PS1) Continued Prepared: 04/27/2009 12:43 Analyzed: 04/28/2009 16:15

Source: C904411-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.03		0.002	mg/L	0.0250	-0.00002	105	75-125			
Thallium	0.026		0.001	mg/L	0.0250	0.002	95	75-125			

Classical Chemistry Parameters - Quality Control

Batch 9D23004 - NO PREP

Blank (9D23004-BLK1) Prepared: 04/23/2009 08:27 Analyzed: 04/23/2009 10:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.010	U	0.10	mg/L							

LCS (9D23004-BS1) Prepared: 04/23/2009 08:27 Analyzed: 04/23/2009 10:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.99		0.10	mg/L	1.00		99	80-120			

Matrix Spike (9D23004-MS1) Prepared: 04/23/2009 08:27 Analyzed: 04/23/2009 10:18

Source: C904255-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.1		0.10	mg/L	1.00	0.074	99	80-120			

Matrix Spike Dup (9D23004-MSD1) Prepared: 04/23/2009 08:27 Analyzed: 04/23/2009 10:19

Source: C904255-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.1		0.10	mg/L	1.00	0.074	101	80-120	1	25	

Batch 9D23030 - Same

Blank (9D23030-BLK1) Prepared: 04/24/2009 10:51 Analyzed: 04/27/2009 11:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (9D23030-BS1) Prepared: 04/24/2009 10:51 Analyzed: 04/27/2009 11:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.5		0.10	mg/L	1.60		94	80-120			

Matrix Spike (9D23030-MS1) Prepared: 04/24/2009 10:51 Analyzed: 04/27/2009 11:27

Source: C903551-04

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	0.050 U	97	80-120			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9D23030 - Same

Matrix Spike Dup (9D23030-MSD1) Prepared: 04/24/2009 10:51 Analyzed: 04/27/2009 11:28

Source: C903551-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.5		0.10	mg/L	1.60	0.050 U	97	80-120	0.1	25	

Batch 9D23041 - NO PREP

Blank (9D23041-BLK1) Prepared: 04/23/2009 14:27 Analyzed: 04/23/2009 23:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.078	U	5.0	mg/L							

LCS (9D23041-BS1) Prepared: 04/23/2009 14:27 Analyzed: 04/23/2009 23:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	48		5.0	mg/L	50.0		97	90-110			

Matrix Spike (9D23041-MS1) Prepared: 04/23/2009 14:27 Analyzed: 04/24/2009 01:03

Source: C903591-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	370	D	5.0	mg/L	200	150	110	80-120			

Matrix Spike Dup (9D23041-MSD1) Prepared: 04/23/2009 14:27 Analyzed: 04/24/2009 01:24

Source: C903591-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	360	D	5.0	mg/L	200	150	108	80-120	0.9	15	

Batch 9D23043 - NO PREP

Blank (9D23043-BLK1) Prepared: 04/23/2009 17:00 Analyzed: 04/28/2009 17:32

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 (9D23043-BS1) Prepared: 04/23/2009 17:00 Analyzed: 04/28/2009 17:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	190		2.0	mg/L	198		98	85-115			

Duplicate (9D23043-DUP1) Prepared: 04/23/2009 17:00 Analyzed: 04/28/2009 17:32

Source: C903137-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.1		2.0	mg/L		2.2			4	25	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9D24011 - NO PREP

Blank (9D24011-BLK1) Prepared: 04/24/2009 13:20 Analyzed: 04/28/2009 14:23

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 (9D24011-BS1) Prepared: 04/24/2009 13:20 Analyzed: 04/28/2009 14:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	86		1.0	mg/L	80.0		108	82-119			

Duplicate (9D24011-DUP1) Prepared: 04/24/2009 13:20 Analyzed: 04/28/2009 14:23

Source: C904195-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	16		1.0	mg/L		17			6	25	

Batch 9D26010 - NO PREP

Blank (9D26010-BLK1) Prepared: 04/26/2009 13:04 Analyzed: 04/26/2009 16:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.017	U	0.10	mg/L							

LCS (9D26010-BS1) Prepared: 04/26/2009 13:04 Analyzed: 04/26/2009 16:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	1.25		95	80-120			

Matrix Spike (9D26010-MS1) Prepared: 04/26/2009 13:04 Analyzed: 04/26/2009 16:47

Source: C904259-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	12	E	0.10	mg/L	1.28	11	100	80-120			QM-02

Matrix Spike Dup (9D26010-MSD1) Prepared: 04/26/2009 13:04 Analyzed: 04/26/2009 16:48

Source: C904259-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	13	E	0.10	mg/L	1.28	11	133	80-120	3	25	QM-02

Batch 9D27029 - NO PREP

Blank (9D27029-BLK1) Prepared: 04/27/2009 10:30 Analyzed: 04/28/2009 13:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	3.1	U	10	mg/L							

LCS (9D27029-BS1) Prepared: 04/27/2009 10:30 Analyzed: 04/28/2009 13:50

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9D27029 - NO PREP

LCS (9D27029-BS1) Continued Prepared: 04/27/2009 10:30 Analyzed: 04/28/2009 13:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	520		10	mg/L	500		104	90-110			

Matrix Spike (9D27029-MS1) Prepared: 04/27/2009 10:30 Analyzed: 04/28/2009 13:50

Source: C904733-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	640		10	mg/L	500	110	106	90-110			

Matrix Spike Dup (9D27029-MSD1) Prepared: 04/27/2009 10:30 Analyzed: 04/28/2009 13:50

Source: C904733-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	620		10	mg/L	500	110	103	90-110	3	10	

Batch 9D28001 - NO PREP

Blank (9D28001-BLK1) Prepared: 04/28/2009 06:34 Analyzed: 04/28/2009 07:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	8.3	U	15	mg/L							

LCS (9D28001-BS1) Prepared: 04/28/2009 06:34 Analyzed: 04/28/2009 07:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100		100	80-120			

Matrix Spike (9D28001-MS1) Prepared: 04/28/2009 06:34 Analyzed: 04/28/2009 07:52

Source: C904409-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	120		15	mg/L	100	22	95	80-120			

Matrix Spike Dup (9D28001-MSD1) Prepared: 04/28/2009 06:34 Analyzed: 04/28/2009 07:53

Source: C904409-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	120		15	mg/L	100	22	96	80-120	0.2	25	

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.
B-02	The sample dilutions set up for the analysis failed to meet the criteria of a residual dissolved oxygen of at least 1 mg/l. Therefore the reported result is an estimated value only.
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.
R-05	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

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

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: ~~47789~~ 49080
Tel: (704) 523-4726 / Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Courtney Withers	Billing Contact: Accounts Payable
Sampler(s) Signature: Courtney R. Withers	Facility # (if required): 5503

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C904410

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	4/22/09	0915	G	GW	10	X	X	X	X	X	X	X	X	X		
	5503-Trip Blank	4/22/09		G	WA	2	X										

<-- Total # of Containers

Sample Prepared By: [illegible]	Date/Time: 4/14/09	Relinquished By: Courtney R. Withers	Date/Time: 4/22/09 1400	Received By: Briana Gurgay	Date/Time: 4/23/09 10:45
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: Blue 2.3°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.

Sample preservation verification

☒ Cary ☐ Jacksonville ☐ Orlando

Work order: C904410 Page: 1 of 1 Initials: BJG Date: 4/22/09

A check mark (✓) in any space under the appropriate column heading for the selected sample indicates that the pH met the required pH.
An asterisk (*) in any space under the appropriate column heading for the selected sample indicates that the pH was adjusted in the lab as described in the comments column.

Sample No	Metals	TPH BJG 4/23	Ammonia	COD	Cyanide	TOC	Hardness	TKN/TON	Oil & grease	Phenolics	NOx	Extractables	Sulfide	FL-PRO	COMMENTS
pH →	<2	<2	<2	<2	>12	<2	<2	<2	<2	<2	<2	5-9	>9	<2	
- 0 1	*	✓		✓							✓				* 1mL HNO3 added
- 2															
- 3															
- 4															
- 5															
- 6															
- 7															
- 8															
- 9															
- 0															
- 1															
- 2															
- 3															
- 4															
- 5															
- 6															
- 7															
- 8															
- 9															
- 0															
- 1															
- 2															
- 3															
- 4															
- 5															
- 6															
- 7															
- 8															
- 9															
- 0															

	Reagent name	ID		Reagent name	ID		Reagent name	ID
1	HNO3	C8L0337	3			5		
2			4			6		

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

$$\bar{X} = \frac{1}{N} X$$: 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):

$$W = \sum_{i=1}^{n} C_i - \frac{1}{2} n(n+1)$$