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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):

Municipal Engineering Services Co., P.A.

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

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

E-mail: jpfohl@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
City of Albemarle Closed MSWLF and Active C&D Landfill	40592-B Stony Gap Rd. Albemarle, NC 28002	84-01	.1600	January 16, 2008

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Jonathan Pfohl	Environmental Specialist	(919) 772-5393
Facility Representative Name (Print)	Title	(Area Code) Telephone Number
Signature	3/6/08 Date	Affix NC Licensed/ Professional Geologist/Engineer Seal here:

Revised 01/2007

Groundwater Sampling Report and Statistical Analysis

Prepared for

City of Albemarle Closed MSWLF and Active C&D Landfill
Albemarle, North Carolina

January, 2008

Permit Number: 84-01
MESCO Project Number: G08009.0

Completed on March 6, 2008

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

OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

March 6, 2008

Ms. Jaclynne Drummond
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Groundwater Sampling and Analysis
City of Albemarle Closed MSWLF and active C&D Landfill
Permit No. 84-01
MESC0 Project No. G08009.0

Dear Ms. Drummond:

The City of Albemarle Closed MSWLF and the piggybacked active C&D Landfill located in Stanley County NC was sampled and analyzed as part of the semi-annual detection monitoring program by Municipal Engineering Services Company, P.A. (MESCO) on January 15, 2008. All of the monitoring wells were sampled for the complete Appendix I list of VOCs and Metals. Due to the continued drought all of the surface waters and MW-8 continue to be dry and therefore were not sampled during this event.

Environmental Conservation Laboratories, Inc. (ENCO) of Cary, NC completed all of the laboratory analysis. All of the laboratory results were reported to the MDL with reference to the current Solid Waste Section Limits (SWSL) and the Groundwater Protection Limits (GWP). It is important to note that by reporting analysis results to the MDL several more parameters were found during this event than would have been had the Sections 1994 recommended PQL's continued to have been utilized. All of the laboratory results are included herein.

All detected constituents were analyzed for regulatory exceedance with reference to the current North Carolina Groundwater Standards (NCGW2L). The results are shown in the enclosed tables titled "Detection Scan". The following tables summarize those constituents that exceeded the SWSL and the NCGW2L Standard.

Table 1. Exceedance Summary (Metals)

Well	Lead	Cadmium	Nickel
MW-1	x		
MW-2			x
MW-12		x	x
MW-25	x		

x=concentration in exceedance of SWSL & NCGW2L Standard

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PO Box 828, Morehead City, NC 28557 (252) 726-9481 PO Box 349, Boone, North Carolina 28607 (828) 262-1767

Table 2. Exceedance Summary (VOCs)

Well	1,4-DCB	Benzene	PCE	TCE	VC
MW-3	x				
MW-7		x			
SHOP			x	x	x

x=concentration in exceedance of SWSL & NCGW2L Standard

Inorganic constituents (Metals) were detected within all of the wells with downgradient wells MW-2, MW-12, MW-25 and the background well MW-1 containing concentrations in exceedances of the NCGW2L Standard. All of the metals were found within their own historical identifiable levels. The only volatile organic constituents (VOCs) detected above the SWSL and the NCGW2L were within downgradient wells MW-3, MW-7, and the supply well located upgradient of the closed landfill and east of the shop. The water originating from the shop supply well is not utilized as a potable source and is only used for cleaning and the bathroom.

MESCO also completed the statistical analysis for the closed MSWLF as required by the Solid Waste Section. The purpose of these analyses is to determine, in comparison to background levels, statistical significance of constituents detected during the January 2008 sampling event.

Statistical Analysis Methodology

Metals

An inter-well statistical analysis was conducted upon metals detected during this sampling event. Monitoring well MW-1 was defined as the background well, and an upper tolerance limit (UTL) with 95% coverage was computed for each detected constituent from the background data at a 95% level of confidence. For each tested constituent, an appropriate statistical analysis method was selected based on the percentages of non-detects (%ND) in the historical background data. The following table (Table 3) summarizes the methods used for four different %ND ranges.

Table 3. Statistical Analysis Methods for Various %ND Ranges

%ND	Analysis Method	ND Substitution
%ND<15%	Parametric tolerance limit	1/2 ND
15%<%ND<50%	Parametric tolerance limit	Cohen or 1/2 ND
50%<%ND<90%	Non-parametric tolerance limit	1/2 ND
90%<%ND	Poisson tolerance limit	-

NOTE: For parametric tolerance interval, normality of the background data was checked by the Shapiro-Wilks normality test, as the method requires that the data be normally distributed.

A preliminary data screening was conducted upon the metals detected in all monitoring locations. Detected parameters with concentrations found below that of the background well MW-1 and those parameters found below quantifiable levels (<SWSL) were eliminated and a statistical analysis was not conducted upon these wells. A total of eight (8) metals were tested for statistical significance. For cobalt and zinc the parametric tolerance limit with 1/2 ND adjustment was used on the log of the original data as its %ND was less than 50% and the data was "log-normally" distributed. For copper the parametric tolerance limit with ½ ND substitution was utilized on the original data as the background data was normally distributed and the the %ND was <50%. For all of the remaining metals, the non-parametric tolerance interval method with ½ ND substitution was utilized because the data was not normally distributed within the background well.

VOCs

All historical VOC detections in the background well MW-1 were pooled in order to determine the total number of detections, from which the expected number of detections in a single down gradient monitoring point (y^*) was derived by utilizing the Poisson prediction interval. The parameter y^* is defined by the following equation:

$$y^* = cy + \frac{t^2 c}{2} + tc\sqrt{y\left(1+\frac{1}{c}\right)+\frac{t^2}{4}}$$

where

$c = 1/n$ (n =number of background samples)
t = one-sided value of students t -Statistic at 95% confidence [a]
y = number of events observed in n previous samples
y^* = expected number of events in a single future sample

[a] Gibbons, R.D., 1994, Statistical methods for groundwater monitoring: John Wiley & Sons, Inc., p.12.

For each monitoring location showing any VOC detection in a quantifiable level, the number of detected VOCs were counted with each detection being considered a "hit". The number was then compared with the expected number of detections derived from the background VOC data. The value of Student's t -Statistic was derived from tabulated values included in Gibbons (1994).

Intrawell Analyses

Intrawell Analyses were conducted only upon those constituents that were initially found to be statistically significant by interwell analysis. In general, intrawell analysis is conducted in order to differentiate true contamination from spatial variability. Baseline levels in this context are defined as the background level derived from the data in a given downgradient well. Intrawell analyses through Shewhart-CUSUM control charts require a minimum of eight independent historical sampling events and a detection rate greater than 25% (%ND≤75%). Due to the detection rate criteria intrawell analysis was not able to be completed for cobalt within MW-2 and cadmium within MW-12.

Results

Historical data compiled for monitoring well MW-1 was used as the baseline. Data distributions were reviewed using time series and box and whiskers plots (enclosed charts). Table 4 summarizes those metals that were found to have increased in concentration according to interwell comparison analyses.

Table 4. Interwell Analyses Summary

Well	Arsenic	Cadmium	Cobalt	Nickel	Zinc
MW-2			x	x	x
MW-12	x	x	x		

x=concentration significantly higher than the background level

In general inorganic constituents were found to have increased in numbers and concentrations compared to recent historical sampling events. Downgradient wells MW-2 and MW-12 were the only wells found to contain concentrations of metals above background levels. Further intrawell analysis revealed that only arsenic within MW-12 was found to have increased compared to it's own historical levels. Although MW-12 was found to contain a statistically significant increase of arsenic concentrations are within historical identifiable levels and were found to be below the NCGW2L Standard.

Volatile Organic Compounds (VOCs) were found in quantifiable levels within downgradient wells MW-3, MW-6, MW-7, MW-11, and the supply well that serves the "Shop". Table 5 summarizes those wells that were found to contain statistically significant VOCs at a 95% confidence level according to the Poisson prediction interval.

Table 5. Poisson Prediction Interval Summary

Well	# of VOCs detected above SWSL
MW-3	5
MW-6	3
MW-7	4
MW-11	3
SHOP	5

The VOCs consist of primarily low level intermediate/daughter purgeable hydrocarbons and aromatics. Based upon the historical VOC detections within the background well every well that contained more than one (1) VOC is considered to be statistically significant according to the Poisson Prediction Interval at a 95% confidence level. The number of wells considered to be impacted by VOCs is the highest since monitoring was initiated but this is a product of the recent reduction in detection limits and not an indication of a recent release. This is the premier event that monitoring well MW-11 has been found to have been impacted by VOCs per the Poisson Prediction Interval analysis. However, all of the constituents detected within MW-11 were found in concentrations well below the NCGW2L standard. No VOCs were found within the 3 newly installed monitoring wells during this event indicating that the upper aquifer has likely not been impacted beyond the property boundary in the regions monitored by MW-2, MW-7, and MW-8.

Conclusion

The metals found within the monitoring locations are very likely not associated with leachate contamination but rather natural in origin as evidenced by the lack of consistent historical detections and the results of the intrawell analysis. The elevated total metal concentrations within MW-2 and MW-12 can likely be attributed to turbidity arising from the current drought conditions. Water samples procured from both MW-2 and MW-12 were found to be the most turbid and among the slowest to recharge upon the entire site.

Although the Poisson prediction interval analyses for VOCs indicate that MW-3, MW-6, MW-7, MW-11, and the Shop supply well have been impacted it is very unlikely that the contaminants have migrated beyond the property boundary in detectable levels due to the observed low concentrations, direction of groundwater flow, distance to the property lines, and the location of the discharge feature which is centrally located upon the property. The supply well at the shop is not a potable source of water and the facility has been made aware of the condition of the water. The shop supply well is planned to be properly abandoned but will continue to be sampled semi-annually until then.

MESCO submitted the required Assessment of Corrective Measures (ACM) report to the Section on September 18, 2007. The comprehensive report concluded that for the contamination along the eastern portion of the landfill monitored by MW-3 and MW-9 would best be treated through natural attenuation. This corrective measure is the most cost effective remediation approach due to the centrally located discharge feature which lacks detections and will effectively dilute any plume which may intersect it. The plume within the western portion of the facility monitored by MW-2, MW-6, MW-7, MW-24, and MW-25 appears to be isolated and has not migrated beyond the property boundary. However, it is recommended that the entire adjoining property in this region or at least a larger buffer be purchased in order to increase the relevant point of compliance and that phytoremediation would be the most viable remediation method. The required public meeting was conducted in February 2008 and the Corrective Action Plan (CAP) will be submitted to the Section prior to June 30, 2008.

MESCO completed the enclosed potentiometric map with groundwater elevations on the day of sampling, flow rates and direction. The calculated flow directions are very consistent with previous events and the monitoring network continues to appear to be adequate. Calculated flow rates are also consistent with previous events and are comparably slow with values ranging from <1 ft/year to >100 ft/yr. The field data sheet and chain of custody is also enclosed.

The entire facility will continue semi-annual sampling and will be sampled again in July 2008 for the complete Appendix I list of parameters. Please contact me by phone at (919) 772-5393 or by email at jpfohl@mesco.com if you have any questions or comments.

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

Jonathan Pfohl
Environmental Specialist

Enclosures
cc: Mr. Mike Lambert
City of Albemarle

Detection Scan All Detections above SWSL, GWP, and NCGW2L
City of Albemarle Closed MSWLF and C&D Landfill

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-1	Barium	01/16/2008	177	ug/L	0.20	10	2000			
MW-1	Chromium	01/16/2008	14.2	ug/L	2.0	10	50			
MW-1	Cobalt	01/16/2008	66.8	ug/L	2.0	10		70		
MW-1	Copper	01/16/2008	55.1	ug/L	0.60	10	1000			
MW-1	**Lead**	**01/16/2008**	**37.8**	**ug/L**	**2.0**	**10.0**	**15**		**22.8**	**Natural**
MW-1	Nickel	01/16/2008	76.1	ug/L	2.0	10	100			
MW-1	**Vanadium**	**01/16/2008**	**13.3**	**ug/L**	**1.0**	**10**		**3.5**	**9.8**	**Natural**
MW-1	Zinc	01/16/2008	173	ug/L	1.0	10	1050			
MW-2	Barium	01/16/2008	45.4	ug/L	0.20	10	2000			
MW-2	**Cobalt**	**01/16/2008**	**930**	**ug/L**	**2.0**	**10**		**70**	**860**	**Natural**
MW-2	Copper	01/16/2008	16.9	ug/L	0.60	10	1000			
MW-2	Lead	01/16/2008	13.6	ug/L	2.0	10	15			
MW-2	**Nickel**	**01/16/2008**	**861**	**ug/L**	**2.0**	**10.0**	**100**		**761**	**Natural**
MW-2	Zinc	01/16/2008	603	ug/L	1.0	10	1050			
MW-3	1,1-Dichloroethane	01/16/2008	3.3	ug/L	0.090	1	70			
MW-3	**1,4-Dichlorobenzene**	**01/16/2008**	**1.6**	**ug/L**	**0.15**	**1.0**	**1.4**		**0.2**	**Leachate**
MW-3	Barium	01/16/2008	15.4	ug/L	0.20	10	2000			
MW-3	Chlorobenzene	01/16/2008	7	ug/L	0.16	1	50			
MW-3	cis-1,2-Dichloroethene	01/16/2008	1.1	ug/L	0.14	1	70			
MW-3	**Tetrachloroethene**	**01/16/2008**	**0.71**	**ug/L**	**0.25**	**1.0**	**0.7**		**0.01**	**Leachate**
MW-4R	1,1-Dichloroethane	01/16/2008	1.1	ug/L	0.090	1	70			
MW-4R	Cadmium	01/16/2008	1	ug/L	0.50	1	1.75			
MW-4R	Cobalt	01/16/2008	22	ug/L	2.0	10		70		
MW-4R	Nickel	01/16/2008	16.9	ug/L	2.0	10	100			
MW-5R	Arsenic	01/16/2008	14.4	ug/L	2.0	10	50			
MW-5R	Barium	01/16/2008	34.1	ug/L	0.20	10	2000			
MW-5R	Cobalt	01/16/2008	62.2	ug/L	2.0	10		70		
MW-5R	Copper	01/16/2008	62.4	ug/L	0.60	10	1000			
MW-5R	Lead	01/16/2008	12.6	ug/L	2.0	10	15			
MW-5R	Nickel	01/16/2008	13.6	ug/L	2.0	10	100			
MW-5R	**Vanadium**	**01/16/2008**	**5.5**	**ug/L**	**1.0**	**10**		**3.5**	**2**	**Natural**
MW-5R	Zinc	01/16/2008	34.4	ug/L	1.0	10	1050			
MW-6	1,1-Dichloroethane	01/16/2008	2	ug/L	0.090	1	70			
MW-6	**Tetrachloroethene**	**01/16/2008**	**0.92**	**ug/L**	**0.25**	**1.0**	**0.7**		**0.22**	**Leachate**
MW-6	Trichlorofluoromethane	01/16/2008	7.3	ug/L	0.16	1	2100			
MW-7	1,1-Dichloroethane	01/16/2008	3.9	ug/L	0.090	1	70			
MW-7	Barium	01/16/2008	16.2	ug/L	0.20	10	2000			
MW-7	**Benzene**	**01/16/2008**	**2.4**	**ug/L**	**0.12**	**1.0**	**1**		**1.4**	**Leachate**
MW-7	Cadmium	01/16/2008	1	ug/L	0.50	1	1.75			
MW-7	Chlorobenzene	01/16/2008	4	ug/L	0.16	1	50			
MW-7	cis-1,2-Dichloroethene	01/16/2008	1.8	ug/L	0.14	1	70			
MW-8D	Barium	01/16/2008	24.2	ug/L	0.20	10	2000			
MW-8D	Zinc	01/16/2008	15.7	ug/L	1.0	10	1050			
MW-9	Barium	01/16/2008	12	ug/L	0.20	10	2000			
MW-9	**Vanadium**	**01/16/2008**	**7.3**	**ug/L**	**1.0**	**10**		**3.5**	**3.8**	**Natural**
MW-9	Zinc	01/16/2008	11	ug/L	1.0	10	1050			

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-10	Barium	01/16/2008	69.4	ug/L	0.20	10	2000			
MW-10	Nickel	01/16/2008	13	ug/L	2.0	10	100			
MW-11	1,1-Dichloroethane	01/16/2008	11	ug/L	0.090	1	70			
MW-11	Barium	01/16/2008	32.6	ug/L	0.20	10	2000			
MW-11	Chloroethane	01/16/2008	4	ug/L	0.40	1	2800			
MW-11	cis-1,2-Dichloroethene	01/16/2008	3	ug/L	0.14	1	70			
MW-11	Nickel	01/16/2008	47.7	ug/L	2.0	10	100			
MW-12	Acetone	01/16/2008	19	ug/L	0.90	5	700			
MW-12	Arsenic	01/16/2008	33.2	ug/L	2.0	10	50			
MW-12	Barium	01/16/2008	138	ug/L	0.20	10	2000			
MW-12	**Cadmium**	**01/16/2008**	**2.2**	**ug/L**	**0.50**	**1.00**	**1.75**		**0.45**	**Natural**
MW-12	**Cobalt**	**01/16/2008**	**73.4**	**ug/L**	**2.0**	**10**		**70**	**3.4**	**Natural**
MW-12	Copper	01/16/2008	40.1	ug/L	0.60	10	1000			
MW-12	**Nickel**	**01/16/2008**	**111**	**ug/L**	**2.0**	**10.0**	**100**		**11**	**Natural**
MW-12	Zinc	01/16/2008	30.9	ug/L	1.0	10	1050			
MW-24	Arsenic	01/16/2008	17.5	ug/L	2.0	10	50			
MW-24	Barium	01/16/2008	18.5	ug/L	0.20	10	2000			
MW-24	Chromium	01/16/2008	13.8	ug/L	2.0	10	50			
MW-24	Cobalt	01/16/2008	12.4	ug/L	2.0	10		70		
MW-24	Copper	01/16/2008	33.7	ug/L	0.60	10	1000			
MW-24	Lead	01/16/2008	10.1	ug/L	2.0	10	15			
MW-24	Nickel	01/16/2008	11	ug/L	2.0	10	100			
MW-24	**Vanadium**	**01/16/2008**	**15.9**	**ug/L**	**1.0**	**10**		**3.5**	**12.4**	**Natural**
MW-24	Zinc	01/16/2008	17.3	ug/L	1.0	10	1050			
MW-25	Barium	01/16/2008	33.8	ug/L	0.20	10	2000			
MW-25	Chromium	01/16/2008	25.9	ug/L	2.0	10	50			
MW-25	Copper	01/16/2008	35.5	ug/L	0.60	10	1000			
MW-25	**Lead**	**01/16/2008**	**16.3**	**ug/L**	**2.0**	**10.0**	**15**		**1.3**	**Natural**
MW-25	Nickel	01/16/2008	22	ug/L	2.0	10	100			
MW-25	**Vanadium**	**01/16/2008**	**28.7**	**ug/L**	**1.0**	**10**		**3.5**	**25.2**	**Natural**
MW-25	Zinc	01/16/2008	37.7	ug/L	1.0	10	1050			
SHOP	1,1-Dichloroethane	01/16/2008	6.7	ug/L	0.090	1	70			
SHOP	cis-1,2-Dichloroethene	01/16/2008	6.4	ug/L	0.14	1	70			
SHOP	Copper	01/16/2008	22.7	ug/L	0.60	10	1000			
SHOP	**Tetrachloroethene**	**01/16/2008**	**8.6**	**ug/L**	**0.25**	**1.0**	**0.7**		**7.9**	**Leachate**
SHOP	**Trichloroethene**	**01/16/2008**	**6**	**ug/L**	**0.23**	**1.0**	**2.8**		**3.2**	**Leachate**
SHOP	**Vinyl chloride**	**01/16/2008**	**1.4**	**ug/L**	**0.15**	**1.0**	**0.015**		**1.385**	**Leachate**
SHOP	Zinc	01/16/2008	22.3	ug/L	1.0	10	1050			
EB	Acetone	01/15/2008	14	ug/L	0.90	5	700			
EB	Chloroform	01/15/2008	18	ug/L	0.16	1	70			
FB	Acetone	01/15/2008	13	ug/L	0.90	5	700			
FB	Chloroform	01/15/2008	18	ug/L	0.16	1	70			

[1] Table only contains detected constituents

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

[3] NCGW2L = North Carolina Ground Water 2L Standard

[4] MDL = Method Detection Limit

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

LFG = Landfill Gas

Detection Scan All Detections above MDL
City of Albemarle Closed MSWLF and C&D Landfill

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-1	Acetone	01/16/2008	4.6	ug/L	0.90	5	700			
MW-1	Antimony	01/16/2008	1.5	ug/L	0.68	2		6		
MW-1	Arsenic	01/16/2008	6.2	ug/L	2.0	10	50			
MW-1	Barium	01/16/2008	177	ug/L	0.20	10	2000			
MW-1	Chromium	01/16/2008	14.2	ug/L	2.0	10	50			
MW-1	Cobalt	01/16/2008	66.8	ug/L	2.0	10		70		
MW-1	Copper	01/16/2008	55.1	ug/L	0.60	10	1000			
MW-1	**Lead**	**01/16/2008**	**37.8**	**ug/L**	**2.0**	**10.0**	**15**		**22.8**	**Natural**
MW-1	Nickel	01/16/2008	76.1	ug/L	2.0	10	100			
MW-1	Thallium	01/16/2008	0.097	ug/L	0.036	1		0.28		
MW-1	**Vanadium**	**01/16/2008**	**13.3**	**ug/L**	**1.0**	**10**		**3.5**	**9.8**	**Natural**
MW-1	Zinc	01/16/2008	173	ug/L	1.0	10	1050			
MW-2	Barium	01/16/2008	45.4	ug/L	0.20	10	2000			
MW-2	Cadmium	01/16/2008	0.8	ug/L	0.50	1	1.75			
MW-2	**Cobalt**	**01/16/2008**	**930**	**ug/L**	**2.0**	**10**		**70**	**860**	**Natural**
MW-2	Copper	01/16/2008	16.9	ug/L	0.60	10	1000			
MW-2	Lead	01/16/2008	13.6	ug/L	2.0	10	15			
MW-2	**Nickel**	**01/16/2008**	**861**	**ug/L**	**2.0**	**10.0**	**100**		**761**	**Natural**
MW-2	Thallium	01/16/2008	0.043	ug/L	0.036	1		0.28		
MW-2	Zinc	01/16/2008	603	ug/L	1.0	10	1050			
MW-3	1,1-Dichloroethane	01/16/2008	3.3	ug/L	0.090	1	70			
MW-3	**1,4-Dichlorobenzene**	**01/16/2008**	**1.6**	**ug/L**	**0.15**	**1.0**	**1.4**		**0.2**	**Leachate**
MW-3	Arsenic	01/16/2008	5.4	ug/L	2.0	10	50			
MW-3	Barium	01/16/2008	15.4	ug/L	0.20	10	2000			
MW-3	Chlorobenzene	01/16/2008	7	ug/L	0.16	1	50			
MW-3	cis-1,2-Dichloroethene	01/16/2008	1.1	ug/L	0.14	1	70			
MW-3	Cobalt	01/16/2008	6.6	ug/L	2.0	10		70		
MW-3	Copper	01/16/2008	1.3	ug/L	0.60	10	1000			
MW-3	Nickel	01/16/2008	2.5	ug/L	2.0	10	100			
MW-3	**Tetrachloroethene**	**01/16/2008**	**0.71**	**ug/L**	**0.25**	**1.0**	**0.7**		**0.01**	**Leachate**
MW-3	Trichloroethene	01/16/2008	0.82	ug/L	0.23	1	2.8			
MW-4R	1,1-Dichloroethane	01/16/2008	1.1	ug/L	0.090	1	70			
MW-4R	Antimony	01/16/2008	0.89	ug/L	0.68	2		6		
MW-4R	Arsenic	01/16/2008	3.7	ug/L	2.0	10	50			
MW-4R	Barium	01/16/2008	4.2	ug/L	0.20	10	2000			
MW-4R	Cadmium	01/16/2008	1	ug/L	0.50	1	1.75			
MW-4R	Chlorobenzene	01/16/2008	0.42	ug/L	0.16	1	50			
MW-4R	cis-1,2-Dichloroethene	01/16/2008	0.43	ug/L	0.14	1	70			
MW-4R	Cobalt	01/16/2008	22	ug/L	2.0	10		70		
MW-4R	Copper	01/16/2008	8.6	ug/L	0.60	10	1000			
MW-4R	Nickel	01/16/2008	16.9	ug/L	2.0	10	100			
MW-4R	Zinc	01/16/2008	8.9	ug/L	1.0	10	1050			
MW-5R	Arsenic	01/16/2008	14.4	ug/L	2.0	10	50			
MW-5R	Barium	01/16/2008	34.1	ug/L	0.20	10	2000			
MW-5R	Chromium	01/16/2008	5.2	ug/L	2.0	10	50			
MW-5R	Cobalt	01/16/2008	62.2	ug/L	2.0	10		70		

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-5R	Copper	01/16/2008	62.4	ug/L	0.60	10	1000			
MW-5R	Lead	01/16/2008	12.6	ug/L	2.0	10	15			
MW-5R	Nickel	01/16/2008	13.6	ug/L	2.0	10	100			
MW-5R	**Vanadium**	**01/16/2008**	**5.5**	**ug/L**	**1.0**	**10**		**3.5**	**2**	**Natural**
MW-5R	Zinc	01/16/2008	34.4	ug/L	1.0	10	1050			
MW-6	1,1-Dichloroethane	01/16/2008	2	ug/L	0.090	1	70			
MW-6	Barium	01/16/2008	3.8	ug/L	0.20	10	2000			
MW-6	Copper	01/16/2008	3	ug/L	0.60	10	1000			
MW-6	Methylene chloride	01/16/2008	0.67	ug/L	0.088	2	4.6			
MW-6	Nickel	01/16/2008	2.7	ug/L	2.0	10	100			
MW-6	Selenium	01/16/2008	2.8	ug/L	2.0	10	50			
MW-6	**Tetrachloroethene**	**01/16/2008**	**0.92**	**ug/L**	**0.25**	**1.0**	**0.7**		**0.22**	**Leachate**
MW-6	Trichlorofluoromethane	01/16/2008	7.3	ug/L	0.16	1	2100			
MW-6	Zinc	01/16/2008	4.6	ug/L	1.0	10	1050			
MW-7	1,1-Dichloroethane	01/16/2008	3.9	ug/L	0.090	1	70			
MW-7	Arsenic	01/16/2008	8.7	ug/L	2.0	10	50			
MW-7	Barium	01/16/2008	16.2	ug/L	0.20	10	2000			
MW-7	**Benzene**	**01/16/2008**	**2.4**	**ug/L**	**0.12**	**1.0**	**1**		**1.4**	**Leachate**
MW-7	Cadmium	01/16/2008	1	ug/L	0.50	1	1.75			
MW-7	Chlorobenzene	01/16/2008	4	ug/L	0.16	1	50			
MW-7	cis-1,2-Dichloroethene	01/16/2008	1.8	ug/L	0.14	1	70			
MW-7	Cobalt	01/16/2008	3.3	ug/L	2.0	10		70		
MW-7	Copper	01/16/2008	4.7	ug/L	0.60	10	1000			
MW-7	Methylene chloride	01/16/2008	0.42	ug/L	0.088	2	4.6			
MW-7	Nickel	01/16/2008	4.7	ug/L	2.0	10	100			
MW-7	Tetrachloroethene	01/16/2008	0.47	ug/L	0.25	1	0.7			
MW-7	Trichlorofluoromethane	01/16/2008	0.51	ug/L	0.16	1	2100			
MW-7	Zinc	01/16/2008	7.1	ug/L	1.0	10	1050			
MW-8D	Antimony	01/16/2008	1.17	ug/L	0.68	2		6		
MW-8D	Arsenic	01/16/2008	2	ug/L	2.0	10	50			
MW-8D	Barium	01/16/2008	24.2	ug/L	0.20	10	2000			
MW-8D	Cobalt	01/16/2008	4.8	ug/L	2.0	10		70		
MW-8D	Copper	01/16/2008	4.5	ug/L	0.60	10	1000			
MW-8D	Nickel	01/16/2008	4.9	ug/L	2.0	10	100			
MW-8D	Thallium	01/16/2008	0.037	ug/L	0.036	1		0.28		
MW-8D	Zinc	01/16/2008	15.7	ug/L	1.0	10	1050			
MW-9	Arsenic	01/16/2008	3.1	ug/L	2.0	10	50			
MW-9	Barium	01/16/2008	12	ug/L	0.20	10	2000			
MW-9	Chromium	01/16/2008	6.5	ug/L	2.0	10	50			
MW-9	Copper	01/16/2008	5.2	ug/L	0.60	10	1000			
MW-9	Nickel	01/16/2008	5.9	ug/L	2.0	10	100			
MW-9	Tetrachloroethene	01/16/2008	0.42	ug/L	0.25	1	0.7			
MW-9	**Vanadium**	**01/16/2008**	**7.3**	**ug/L**	**1.0**	**10**		**3.5**	**3.8**	**Natural**
MW-9	Zinc	01/16/2008	11	ug/L	1.0	10	1050			
MW-10	Barium	01/16/2008	69.4	ug/L	0.20	10	2000			
MW-10	Cobalt	01/16/2008	3.5	ug/L	2.0	10		70		
MW-10	Copper	01/16/2008	1.7	ug/L	0.60	10	1000			
MW-10	Nickel	01/16/2008	13	ug/L	2.0	10	100			
MW-10	Silver	01/16/2008	2	ug/L	2.0	10	18			

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-11	1,1-Dichloroethane	01/16/2008	11	ug/L	0.090	1	70			
MW-11	Arsenic	01/16/2008	2.2	ug/L	2.0	10	50			
MW-11	Barium	01/16/2008	32.6	ug/L	0.20	10	2000			
MW-11	Chloroethane	01/16/2008	4	ug/L	0.40	1	2800			
MW-11	cis-1,2-Dichloroethene	01/16/2008	3	ug/L	0.14	1	70			
MW-11	Cobalt	01/16/2008	8.9	ug/L	2.0	10		70		
MW-11	Copper	01/16/2008	2	ug/L	0.60	10	1000			
MW-11	Nickel	01/16/2008	47.7	ug/L	2.0	10	100			
MW-11	Zinc	01/16/2008	3.4	ug/L	1.0	10	1050			
MW-12	Acetone	01/16/2008	19	ug/L	0.90	5	700			
MW-12	Arsenic	01/16/2008	33.2	ug/L	2.0	10	50			
MW-12	Barium	01/16/2008	138	ug/L	0.20	10	2000			
MW-12	**Cadmium**	**01/16/2008**	**2.2**	**ug/L**	**0.50**	**1.00**	**1.75**		**0.45**	**Natural**
MW-12	Chromium	01/16/2008	7.8	ug/L	2.0	10	50			
MW-12	**Cobalt**	**01/16/2008**	**73.4**	**ug/L**	**2.0**	**10**		**70**	**3.4**	**Natural**
MW-12	Copper	01/16/2008	40.1	ug/L	0.60	10	1000			
MW-12	**Nickel**	**01/16/2008**	**111**	**ug/L**	**2.0**	**10.0**	**100**		**11**	**Natural**
MW-12	Thallium	01/16/2008	0.099	ug/L	0.036	1		0.28		
MW-12	Zinc	01/16/2008	30.9	ug/L	1.0	10	1050			
MW-24	Arsenic	01/16/2008	17.5	ug/L	2.0	10	50			
MW-24	Barium	01/16/2008	18.5	ug/L	0.20	10	2000			
MW-24	Chromium	01/16/2008	13.8	ug/L	2.0	10	50			
MW-24	Cobalt	01/16/2008	12.4	ug/L	2.0	10		70		
MW-24	Copper	01/16/2008	33.7	ug/L	0.60	10	1000			
MW-24	Lead	01/16/2008	10.1	ug/L	2.0	10	15			
MW-24	Nickel	01/16/2008	11	ug/L	2.0	10	100			
MW-24	Thallium	01/16/2008	0.049	ug/L	0.036	1		0.28		
MW-24	**Vanadium**	**01/16/2008**	**15.9**	**ug/L**	**1.0**	**10**		**3.5**	**12.4**	**Natural**
MW-24	Zinc	01/16/2008	17.3	ug/L	1.0	10	1050			
MW-25	Arsenic	01/16/2008	7.6	ug/L	2.0	10	50			
MW-25	Barium	01/16/2008	33.8	ug/L	0.20	10	2000			
MW-25	Chromium	01/16/2008	25.9	ug/L	2.0	10	50			
MW-25	Cobalt	01/16/2008	9.5	ug/L	2.0	10		70		
MW-25	Copper	01/16/2008	35.5	ug/L	0.60	10	1000			
MW-25	**Lead**	**01/16/2008**	**16.3**	**ug/L**	**2.0**	**10.0**	**15**		**1.3**	**Natural**
MW-25	Nickel	01/16/2008	22	ug/L	2.0	10	100			
MW-25	Thallium	01/16/2008	0.07	ug/L	0.036	1		0.28		
MW-25	**Vanadium**	**01/16/2008**	**28.7**	**ug/L**	**1.0**	**10**		**3.5**	**25.2**	**Natural**
MW-25	Zinc	01/16/2008	37.7	ug/L	1.0	10	1050			
SHOP	1,1-Dichloroethane	01/16/2008	6.7	ug/L	0.090	1	70			
SHOP	1,1-Dichloroethene	01/16/2008	0.89	ug/L	0.14	1	7			
SHOP	Arsenic	01/16/2008	5.7	ug/L	2.0	10	50			
SHOP	Barium	01/16/2008	1.4	ug/L	0.20	10	2000			
SHOP	cis-1,2-Dichloroethene	01/16/2008	6.4	ug/L	0.14	1	70			
SHOP	Cobalt	01/16/2008	3	ug/L	2.0	10		70		
SHOP	Copper	01/16/2008	22.7	ug/L	0.60	10	1000			
SHOP	Methylene chloride	01/16/2008	0.87	ug/L	0.088	2	4.6			
SHOP	Nickel	01/16/2008	2.9	ug/L	2.0	10	100			
SHOP	**Tetrachloroethene**	**01/16/2008**	**8.6**	**ug/L**	**0.25**	**1.0**	**0.7**		**7.9**	**Leachate**

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
SHOP	trans-1,2-Dichloroethene	01/16/2008	0.4	ug/L	0.10	1	100			
SHOP	**Trichloroethene**	**01/16/2008**	**6**	**ug/L**	**0.23**	**1.0**	**2.8**		**3.2**	**Leachate**
SHOP	Vanadium	01/16/2008	1.4	ug/L	1.0	10		3.5		
SHOP	**Vinyl chloride**	**01/16/2008**	**1.4**	**ug/L**	**0.15**	**1.0**	**0.015**		**1.385**	**Leachate**
SHOP	Zinc	01/16/2008	22.3	ug/L	1.0	10	1050			
EB	Acetone	01/15/2008	14	ug/L	0.90	5	700			
EB	Chloroform	01/15/2008	18	ug/L	0.16	1	70			
FB	Acetone	01/15/2008	13	ug/L	0.90	5	700			
FB	Chloroform	01/15/2008	18	ug/L	0.16	1	70			

[1] Table only contains detected constituents

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

[3] NCGW2L = North Carolina Ground Water 2L Standard

[4] MDL = Method Detection Limit

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

LFG = Landfill Gas

Hydrologic Properties at Monitoring Well Locations
City of Albemarle Closed MSWLF and C&D Landfill

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Flow Rate (ft/yr)	Flow Direction	Water Table Depth (ft)	Water Table Elev. (ft)
MW-1	1.4E-04	20%	0.05	35.6	N78E	19.52	427.69
MW-2	6.6E-05	5%	0.07	100.3	S47W	12.54	419.31
MW-3	3.4E-04	20%	0.03	54.6	S68E	14.26	381.85
MW-4R	1.4E-05	5%	0.03	9.2	N72E	22.05	393.31
MW-5R	5.0E-05	5%	0.039	40.7	N44E	10.91	405.15
MW-6	4.1E-05	5%	0.015	12.9	N56E	27.23	412.4
MW-7	2.2E-05	5%	0.035	16.1	S60W	16.91	414.39
MW-8D	6.0E-07	5%	0.029	0.4	S58E	56.7	434.68
MW-9	8.3E-05	5%	0.06	97.3	N78E	6.78	385.86
MW-10	7.1E-05	5%	0.03	49.5	N81E	5.05	382.96
MW-11	2.4E-04	15%	0.02	34.9	N64E	7.21	379.57
MW-12	7.4E-05	15%	0.02	8.2	N65E	16.68	382.79
MW-24	1.3E-05	12%	0.06	7.3	S50W	16.36	415.83
MW-25	2.8E-06	12%	0.06	1.4	S48W	11.56	413.66

NOTE: All values for hydraulic conductivity and effective porosity obtained from GAI Consultants Sampling Report (April, 1995).
Hydrologic Gradient taken from the January 16, 2008 sampling event.

Flow rate (Q) is defined by the equation:

where

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

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

P3-1 16.41 Nye Co.

Sampling Data Sheet

Municipal Services Garner, NC — Engineering Company Boone, NC

Project: Albemarle Closed MSWLF & C&D LF

Samplers: J. Pfohl

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Comments	Water Quality Parameters: pH	Temp.	Specific Cond.	Turbidity	Total Depth
MW-8	NS	NS	DRY	–	–		–	–	–	–	–	7
MW-8D	1/16/08	7:10	56.70	I	PD	P&D Baler		6.3	15.4	100	clear	75.9
MW-24		8:00	16.36	I	PD	P&D Baler		6.6	16.2	190	ST	21.25
MW-7		8:25	16.91	I	PD	P&D Baler		6.4	16.5	160	clear	27.92
SW-1		8:35	–	I	–	Dip		6.8	5.6	170	clear	–
SHOP		9:00	–	I	–	[illegible]		6.2	13.7	320	clear	–
MW-5R		9:25	10.91	I	PD	P&D Baler		6.2	16.1	80	clear	25
MW-4R		10:00	22.05	I	PD	P&D Baler		6.8	16.0	90	clear	25
MW-4	NS		10.63	–	–			–	–	–	–	18.50
MW-11	1/16/08	10:30	7.21	I	6	P&D Baler		6.3	15.9	330	clear	18
MW-25		11:00	11.56	I	PD	P&D Baler	CH4 Plant	5.8	15.6	90	ST	18.20
MW-2		11:25	12.54	I	PD	P&D Baler	CH4 Plant	5.2	15.5	1550	MT	17.50
MW-6		12:00	27.23	I	7	P&D Baler		6.3	15.9	110	clear	37
MW-12		12:35	16.68	I	PD	D Baler		5.8	15.8	380	MT	22
MW-3		1:00	19.26	I	4	P&D Baler		6.5	16.5	1080	clear	22.5
MW-9		1:40	6.78	I	PD	P&D Baler		6.4	16.4	140	ST	17.68
MW-10		2:30	5.05	I	PD	P&D Baler		6.9	14.2	2000	ST	18
MW-1		3:40	19.52	I	PD	D Baler	extremely slow recharge				clear	18

NS/MSR

Comments

SS Baler=Stainless Steel Baler, D Baler=Disposable Baler, P=Low flow Pump, PD=Purged Dry

VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Clear

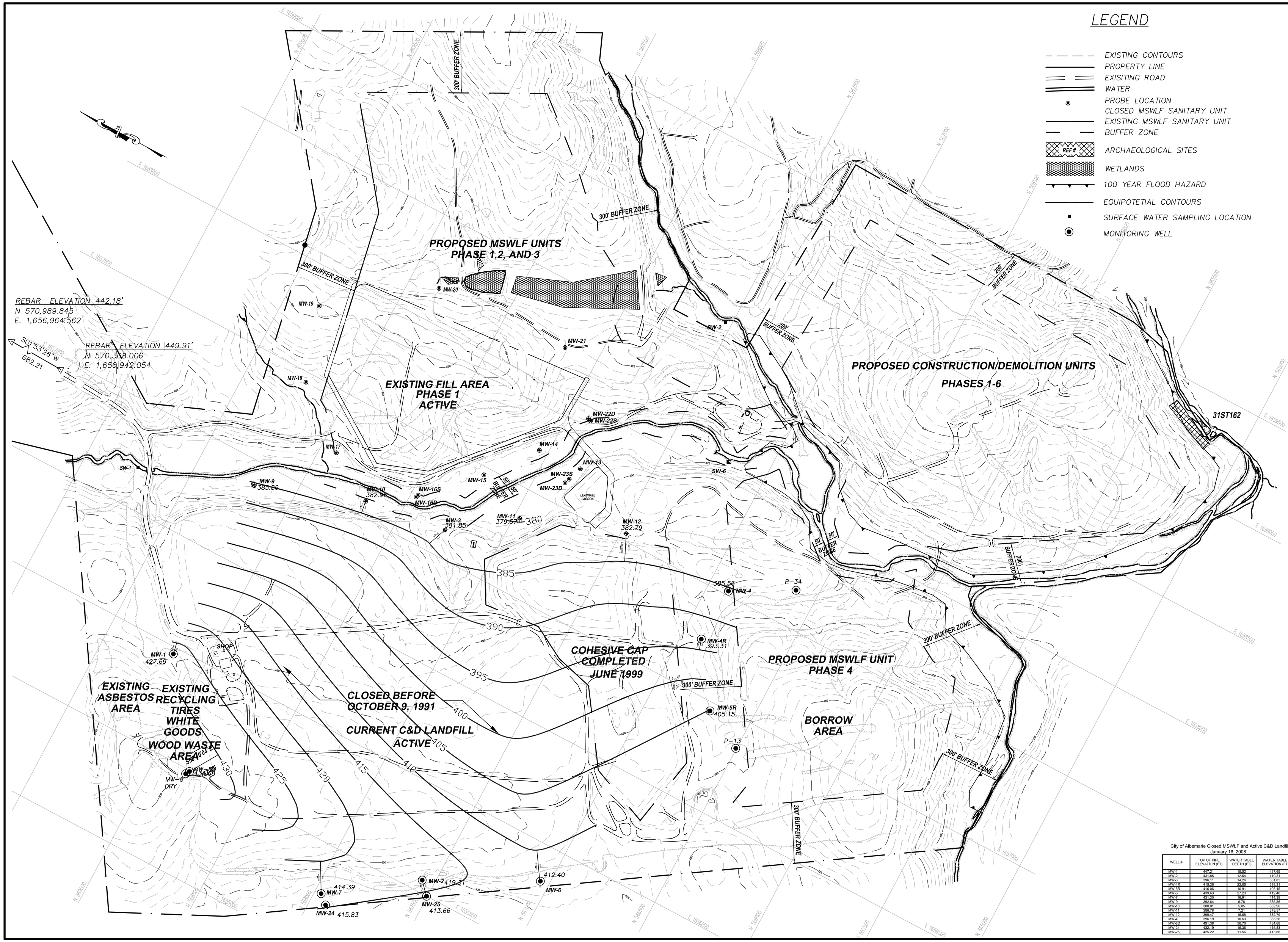
SW-5 Dry NS

MP-8 Damaged [illegible] MW-8 also damaged due to fire

P2-1 19.78

Blades

E



City of Albemarle Closed MSWLF and Active C&D Landfill
January 16, 2008

WELL #	TOP OF PIPE ELEVATION (FT)	WATER TABLE DEPTH (FT)	WATER TABLE ELEVATION (FT)
MW-1	447.21	19.52	427.69
MW-2	431.85	12.54	419.31
MW-3	396.11	14.26	381.85
MW-4R	415.36	22.05	393.31
MW-5R	416.08	10.91	405.15
MW-6	439.63	27.23	412.40
MW-7	431.30	16.91	414.39
MW-9	392.64	6.78	385.86
MW-10	388.01	5.05	382.96
MW-11	386.78	7.21	379.57
MW-12	399.47	16.68	382.79
MW-4	396.19	10.63	385.56
MW-4D	491.08	56.70	434.38
MW-24	432.19	16.36	415.83
MW-25	425.22	11.56	413.66

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

CLOSED MSWLF AND ACTIVE C&D LANDFILL FACILITY
CITY OF ALBEMARLE
NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

SINGLE DAY
POTENTIOMETRIC MAP

SCALE: 1"=200'
DATE: 5/25/2001
DRWN. BY: L. HAMPTON
CHKD. BY: K. YOSHIDA
PROJECT NUMBER G01008.0
DRAWING NO. GW1
SHEET NO. 1 of 1

Statistical Analysis Results Summary

Inter-Well Analyses Summary
City of Albemarle Closed MSWLF and C&D Landfill

Background Well: MW-1

Arsenic, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
78.57	-	Non-parametric tolerance interval	½ ND	25	ug/l

Well	Result	Significance
MW-5R	14.4	no
MW-12	33.2	yes
MW-24	17.5	no

Cadmium, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
85.71	-	Non-parametric tolerance interval	½ ND	1.4	ug/l

Well	Result	Significance
MW-4R	1	no
MW-7	1	no
MW-12	2.2	yes

Chromium, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
53.57	-	Non-parametric tolerance interval	½ ND	60	ug/l

Well	Result	Significance
MW-25	25.9	no

Cobalt, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
14.29	log-normal	Parametric tolerance interval	½ ND	3.88460	log[ug/l]

Well	Result	Significance
MW-2	6.835	yes
MW-12	4.296	yes

Copper, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
39.29	yes	Parametric tolerance interval	½ ND	147.421	ug/l

Well	Result	Significance
MW-5R	62.4	no

Nickel, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
57.14	-	Non-parametric tolerance interval	½ ND	250	ug/l

Well	Result	Significance
MW-2	861	yes
MW-12	111	no

Vanadium, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
75.00	-	Non-parametric tolerance interval	½ ND	70	ug/l

Well	Result	Significance
MW-24	15.9	no
MW-25	28.7	no

Zinc, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
21.43	log-normal	Parametric tolerance interval	½ ND	5.4476	log[ug/l]

Well	Result	Significance
MW-2	6.40192	yes

NOTE: Bold-faced monitoring points indicate detected levels exceeds NCGW2L

Intra-Well Analysis Summary (Metals)
City of Albemarle Closed MSWLF and C&D Landfill

Well	Arsenic	Cadmium	Cobalt	Nickel	Zinc
MW-2			n/a	no	no
MW-12	yes	n/a	no		

EXPLANATION

Bold=detected levels above Standard

n/a=Significant by interwell analysis but Intrawell analysis could not be conducted due to lack of historical detections

yes=detection statistically significant by intrawell analysis

no=detection not statistically significant by intrawell analysis

Concentrations of arsenic within MW-12 have increased according to Intrawell Analysis via Shewhart-CUSUM charts

Summary of Pooled VOCs in Background Well (MW-1)
City of Albemarle Closed MSWLF and C&D Landfill

Constituent	Samples	NDs	% NDs
1,1,1,2-Tetrachloroethane	26	26	100.00
1,1,1-Trichloroethane	26	26	100.00
1,1,2,2-Tetrachloroethane	26	26	100.00
1,1,2-Trichloroethane	26	26	100.00
1,1-Dichloroethane	26	26	100.00
1,1-Dichloroethene	26	26	100.00
1,2,3-Trichloropropane	26	26	100.00
1,2-Dibromo-3-chloropropane	26	26	100.00
1,2-Dibromoethane	26	26	100.00
1,2-Dichlorobenzene	26	26	100.00
1,2-Dichloroethane	26	26	100.00
1,2-Dichloropropane	26	26	100.00
1,4-Dichlorobenzene	26	26	100.00
2-Butanone	26	26	100.00
2-Hexanone	26	26	100.00
4-Methyl-2-Pentanone	26	26	100.00
Acetone	26	26	100.00
Acrylonitrile	26	26	100.00
Benzene	26	26	100.00
Bromochloromethane	26	26	100.00
Bromodichloromethane	26	26	100.00
Bromoform	26	26	100.00
Bromomethane	26	26	100.00
Carbon disulfide	26	26	100.00
Carbon tetrachloride	26	26	100.00
Chlorobenzene	26	26	100.00
Chloroethane	26	26	100.00
Chloroform	26	26	100.00
Chloromethane	26	26	100.00
cis-1,2-Dichloroethene	26	26	100.00
cis-1,3-Dichloropropene	26	26	100.00
Chlorodibromomethane	26	26	100.00
Dibromomethane	26	26	100.00
Ethylbenzene	26	26	100.00
Iodomethane	26	26	100.00
Dichloromethane	26	25	96.15
Styrene	26	26	100.00
Tetrachloroethylene	26	26	100.00
Toluene	26	25	96.15
trans-1,2-Dichloroethene	26	26	100.00
trans-1,3-Dichloropropene	26	26	100.00
trans-1,4-Dichloro-2-butene	26	26	100.00
Trichloroethylene	26	26	100.00
Trichlorofluoromethane	26	26	100.00
Vinyl acetate	26	26	100.00
Vinyl chloride	26	26	100.00
Xylene	26	26	100.00
Total	**1222**	**1220**	**99.84**

Poisson Prediction Interval Based upon Pooled Background VOCs
City of Albemarle Closed MSWLF and C&D Landfill

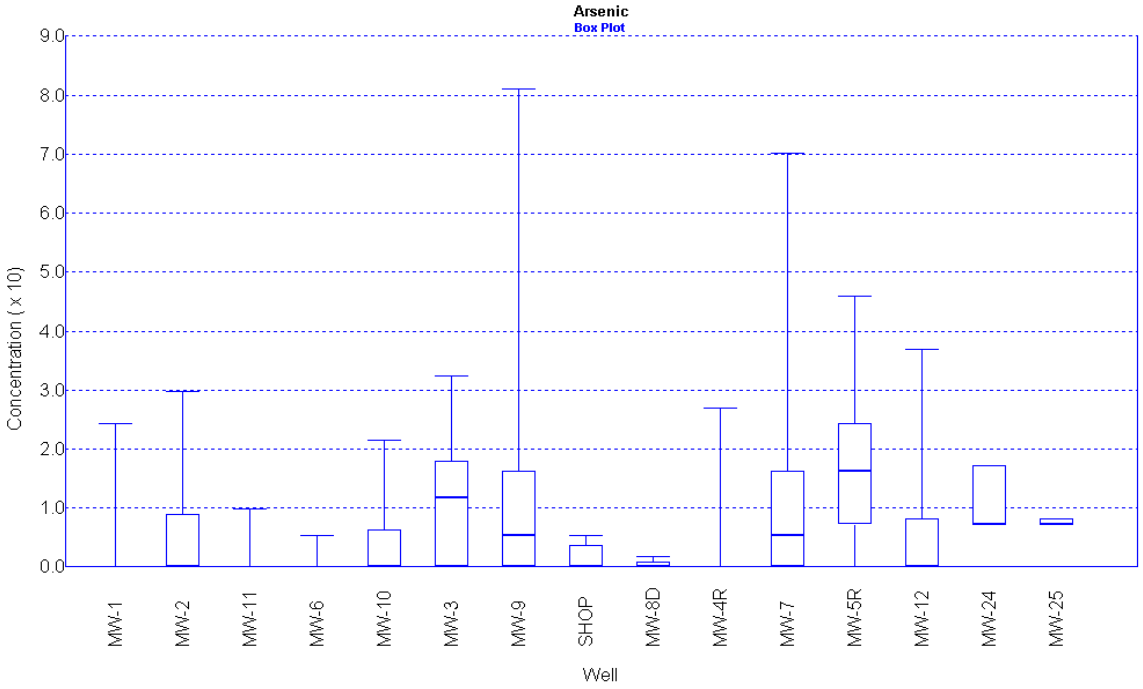
All detected VOCs (Background Well: MW-1)

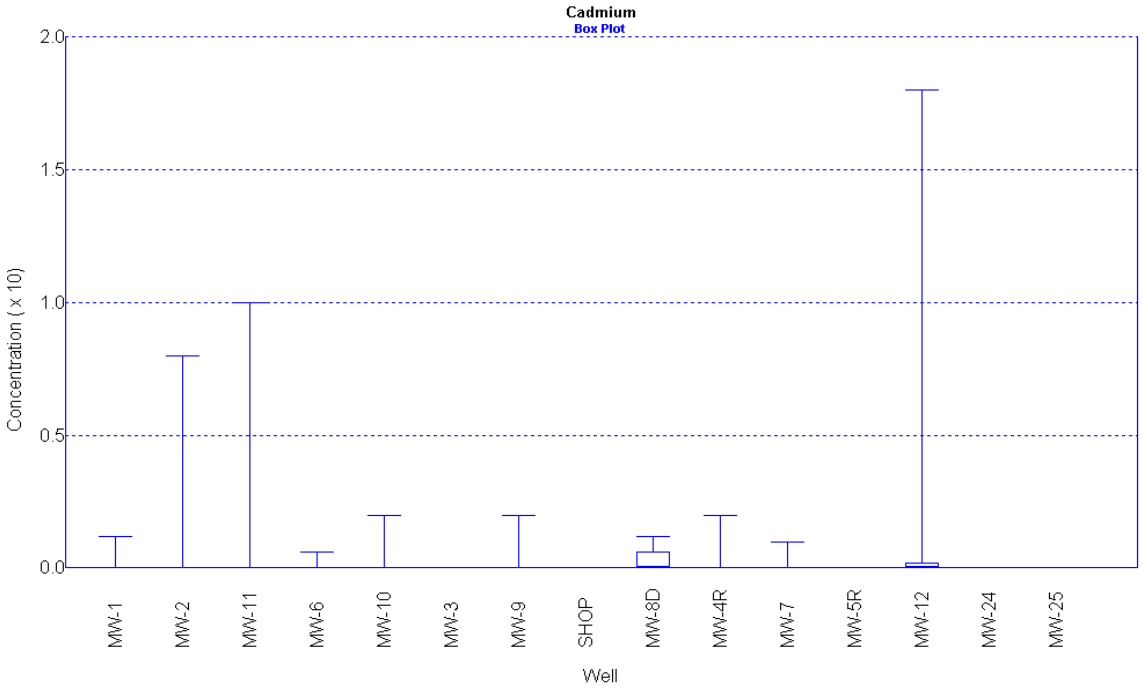
Constituent	MW-3	MW-4R	MW-6	MW-7	MW-11	MW-12	Shop
1,1-Dichloroethane	x	x	x	x	x		x
Acetone						x	
Benzene				**x**			
Chlorobenzene	x			x			
Chloroethane					x		
cis-1,2-Dichloroethene	x			x	x		x
Vinyl Chloride							**x**
Trichlorofluoromethane			x				
Tetrachloroethene	**x**		**x**				**x**
Trichloroethene							**x**
1,4-Dichlorobenzene	**x**						
Detection(s) per Scan	5.00	1.00	3.00	4.00	3.00	1.00	5.00

Total number of sampling events [n] = 26
Total number of detections in background wells [y] = 2
Number of comparisons (downgradient wells) [k] = 14
One-sided value of Student's t-statistic (95% confidence) [t] = 2.93
Expected number of detections in a single future sample [y*] = 1.08

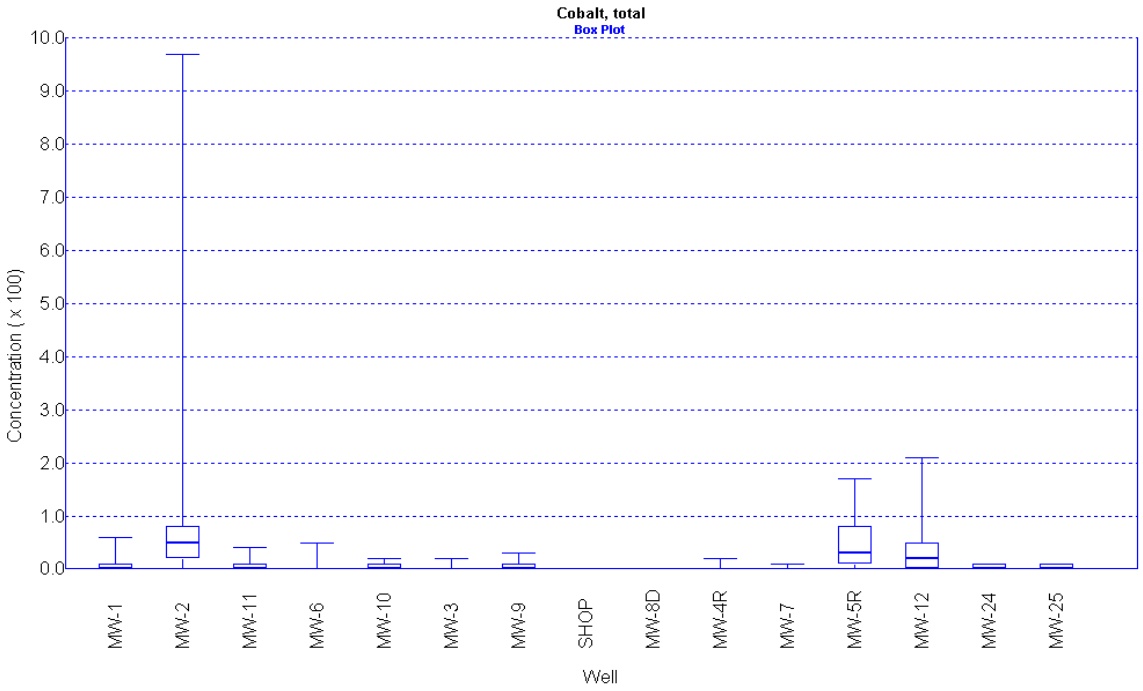
Statistically Significant VOC Detections
within MW-3, MW-6, MW-7, MW-11 and Shop Supply Well
at a 95% confidence level

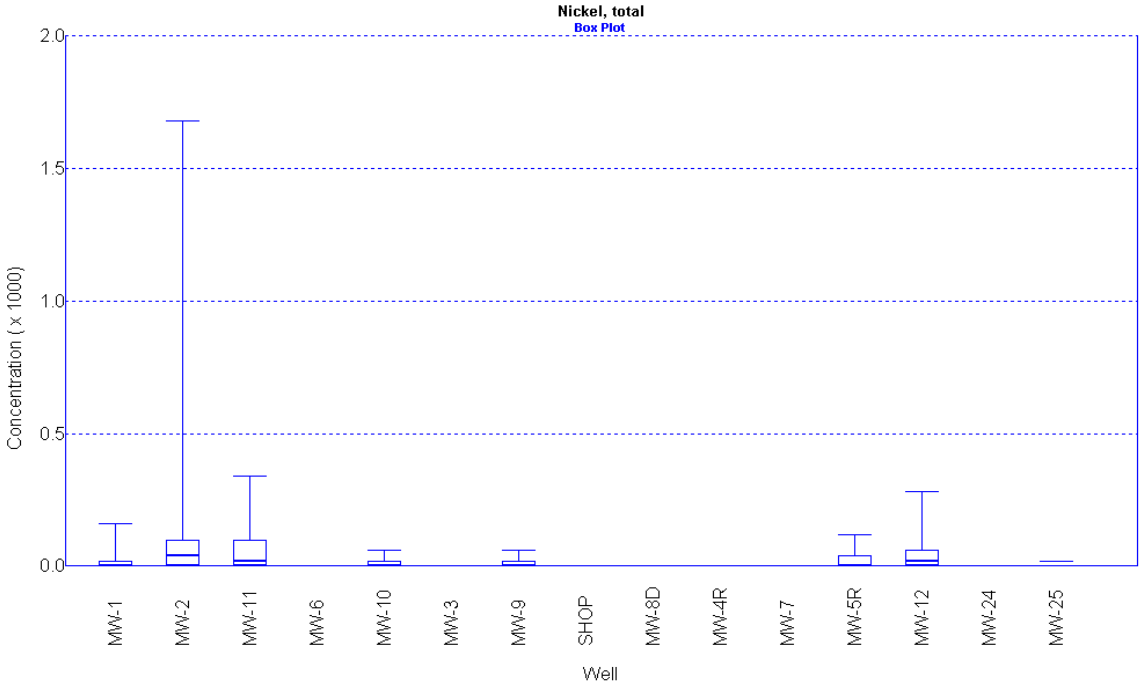
Box Plots for Select Constituents (Metals)
City of Albemarle Closed MSWLF and C&D Landfill



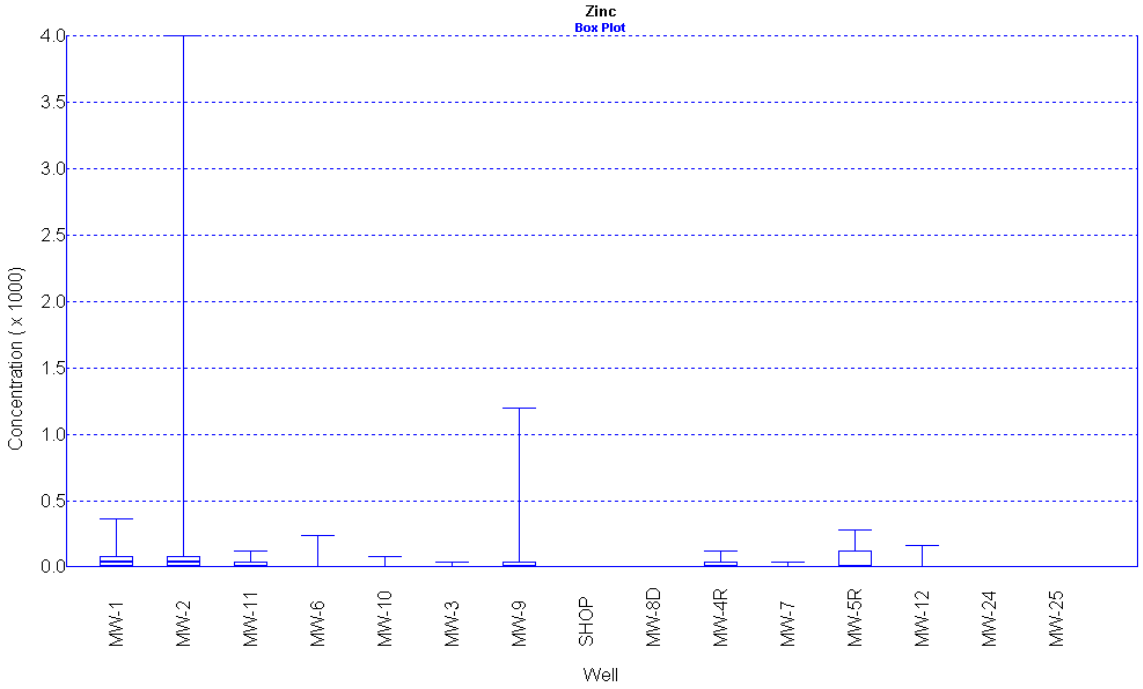


Box Plots for Select Constituents (Metals)
City of Albemarle Closed MSWLF and C&D Landfill

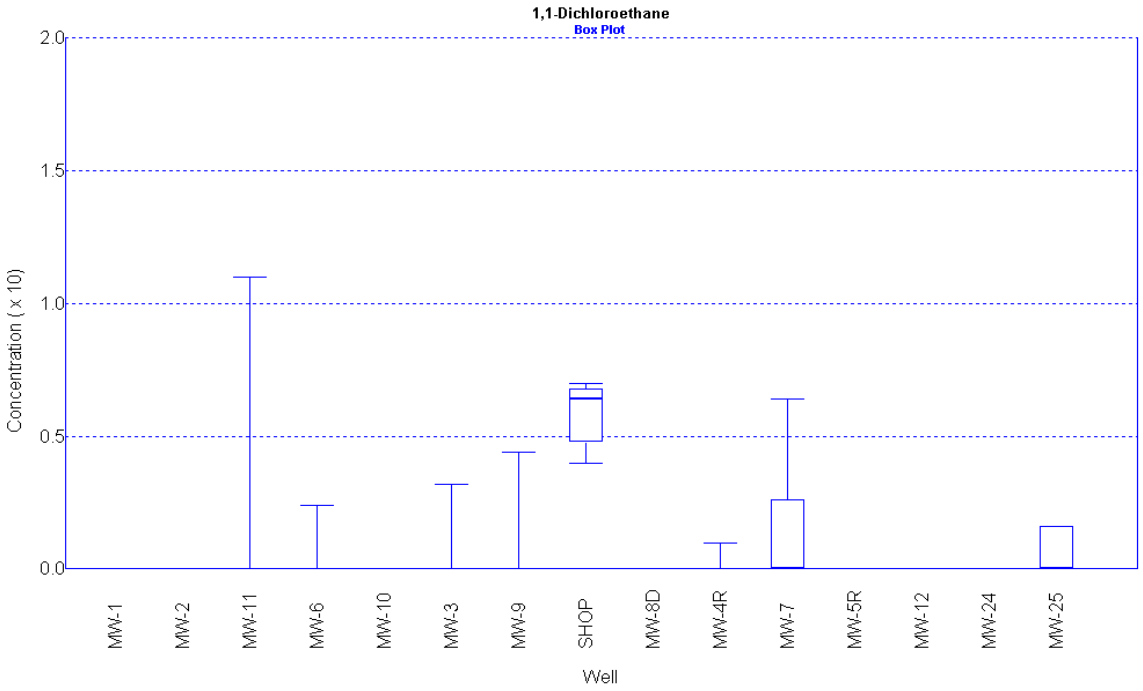


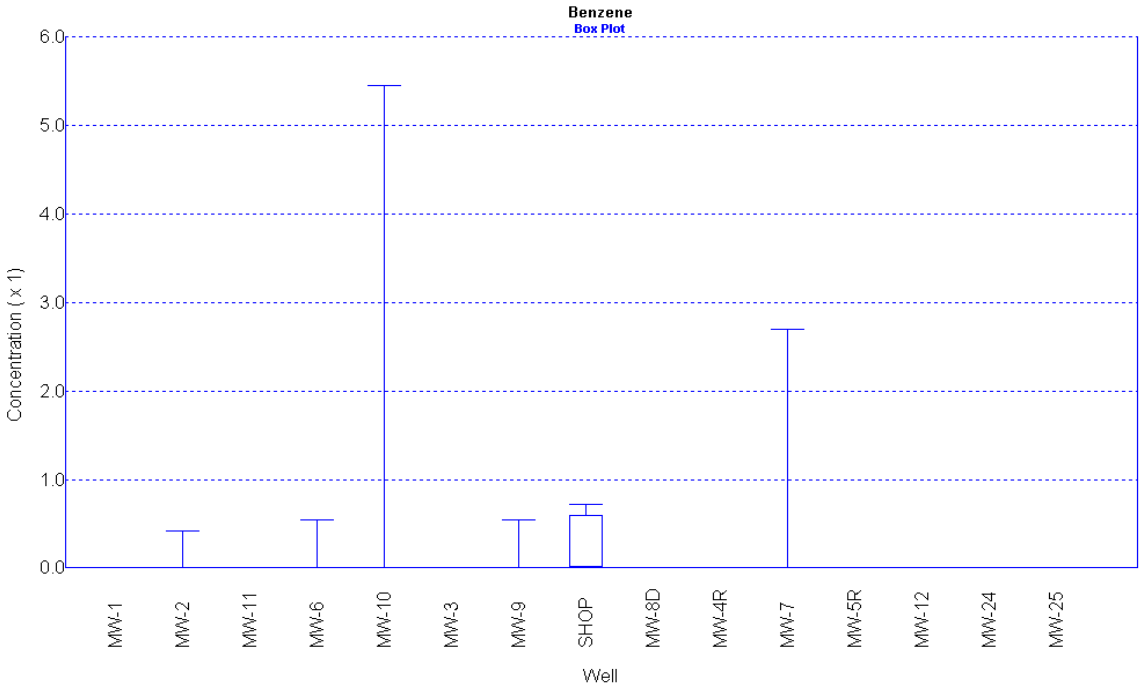


Box Plots for Select Constituents (Metals)
City of Albemarle Closed MSWLF and C&D Landfill

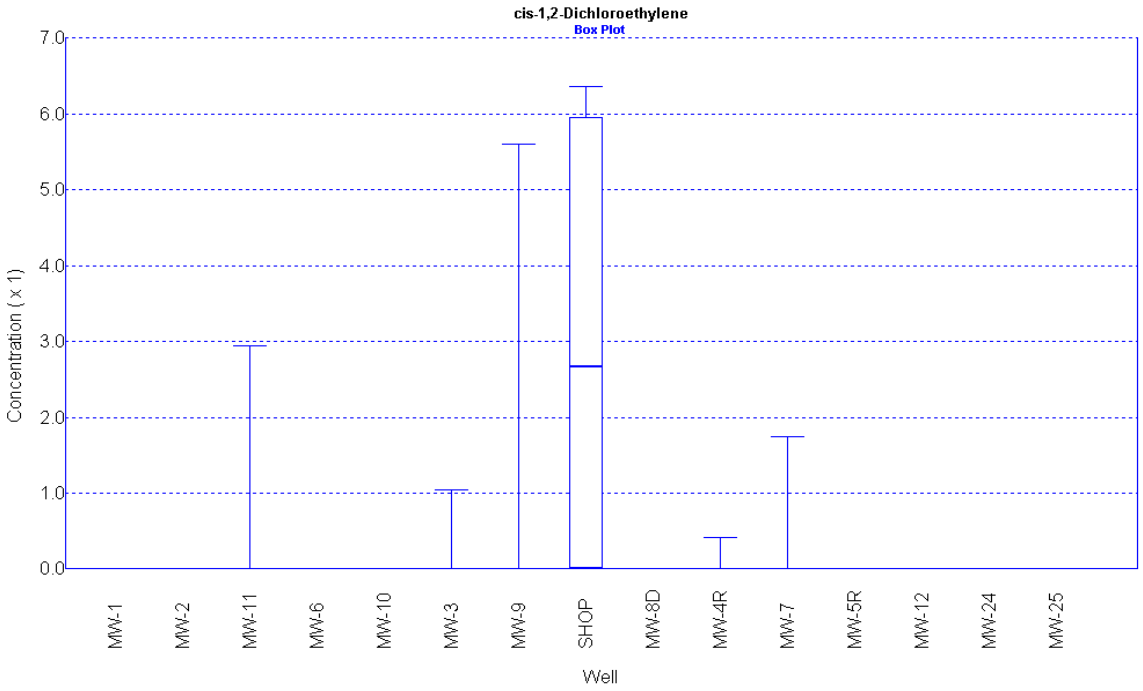


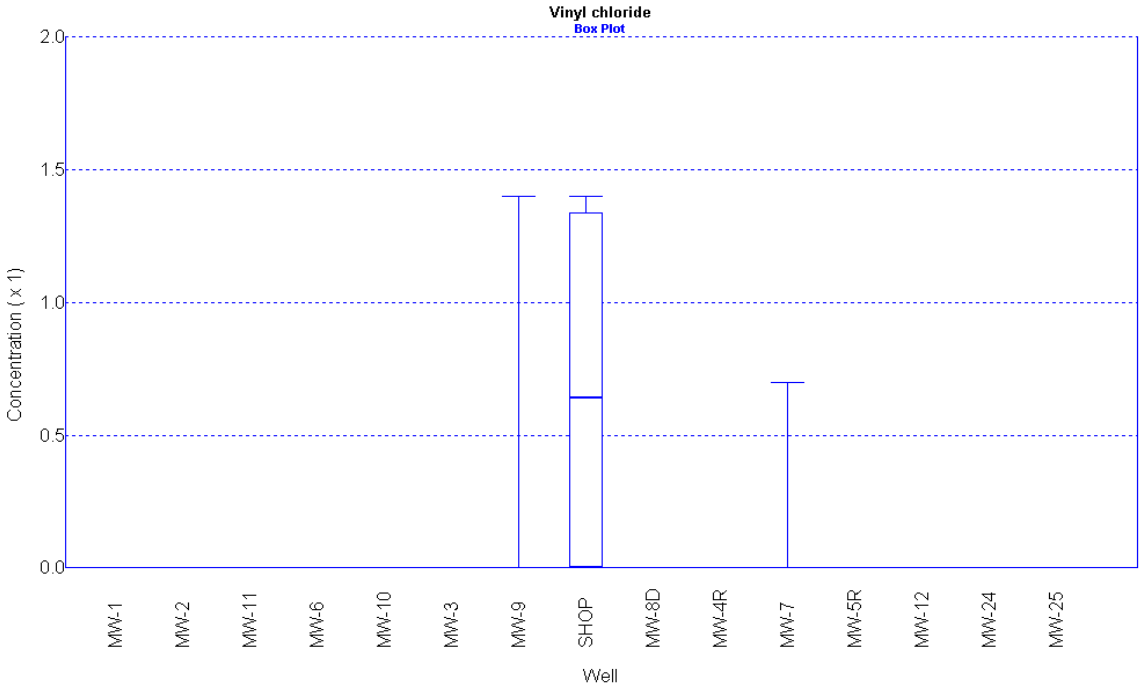
Box Plots for Select Constituents (VOCs)
City of Albemarle Closed MSWLF and C&D Landfill



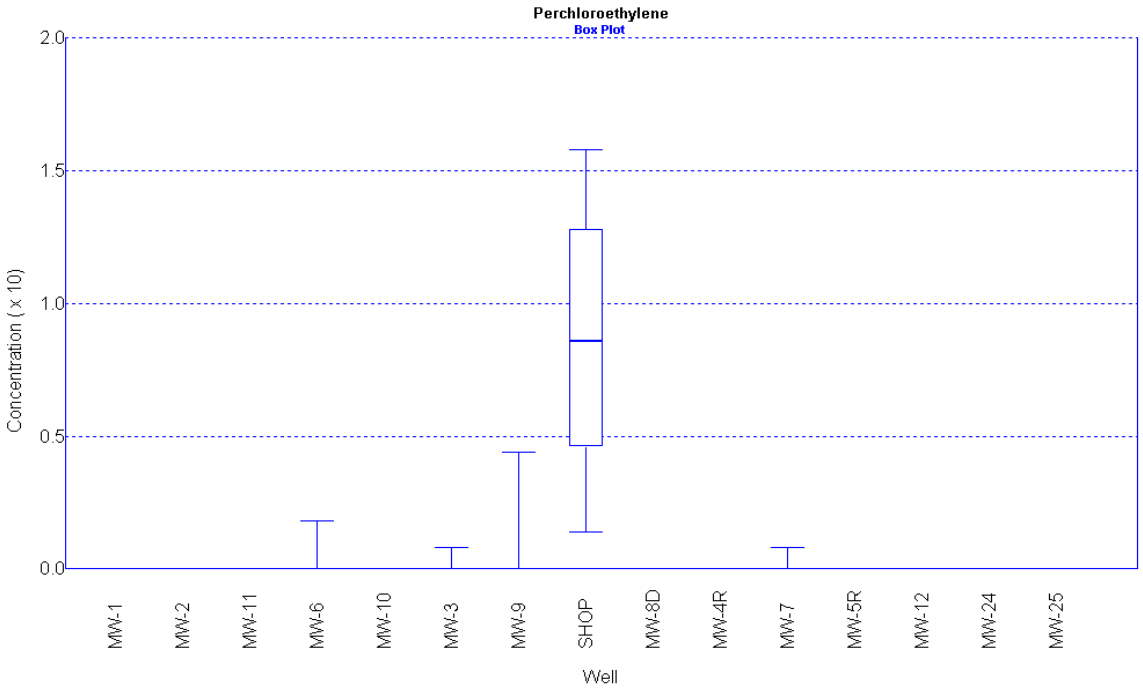


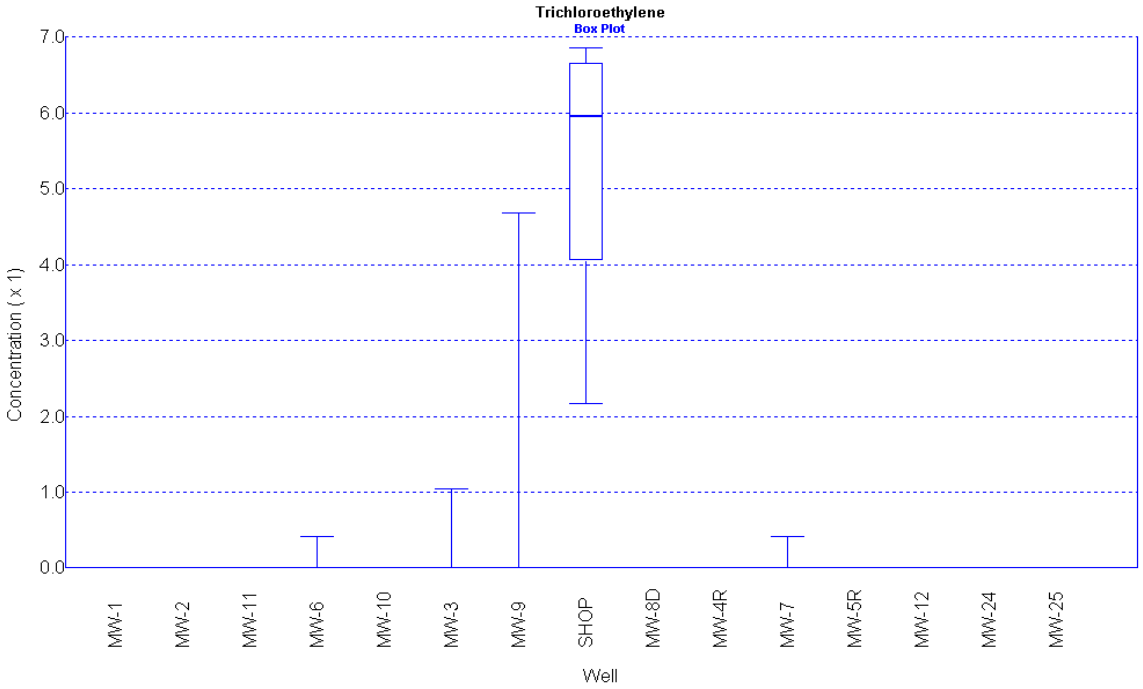
Box Plots for Select Constituents (VOCs)
City of Albemarle Closed MSWLF and C&D Landfill



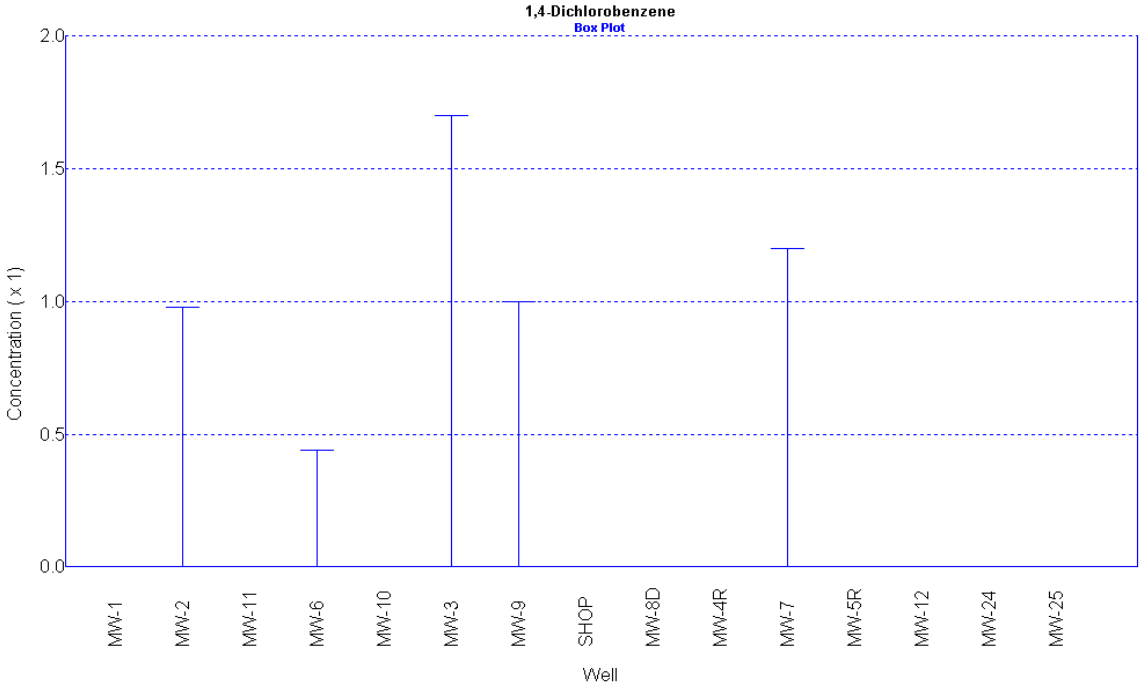


Box Plots for Select Constituents (VOCs)
City of Albemarle Closed MSWLF and C&D Landfill

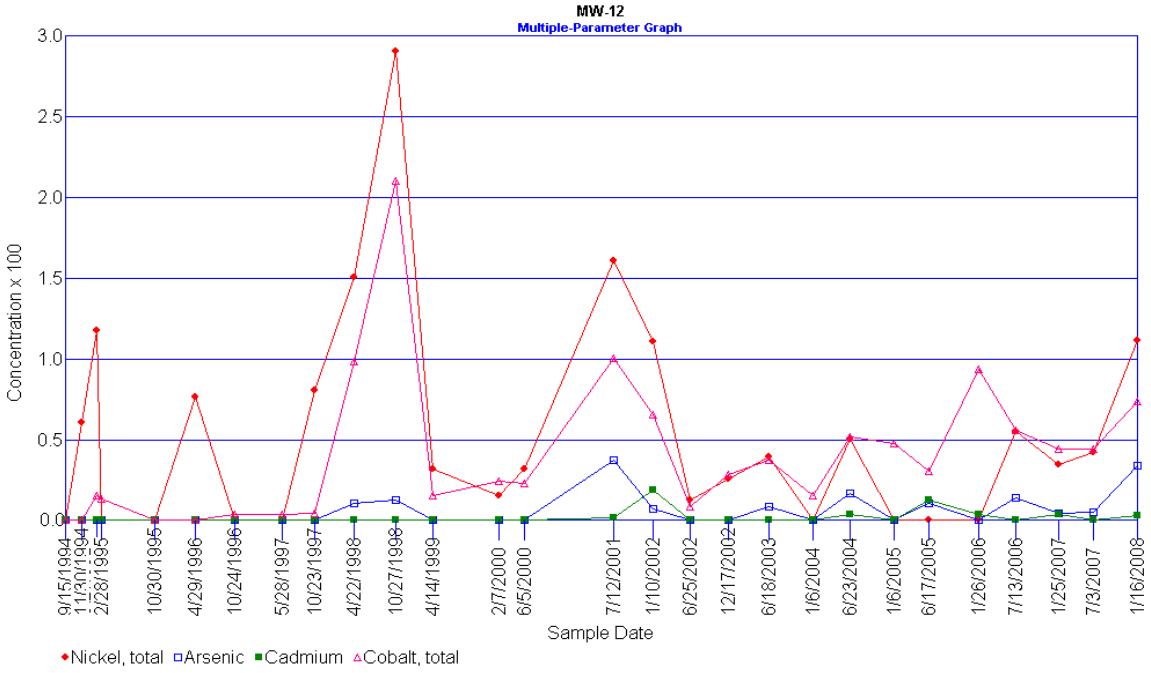


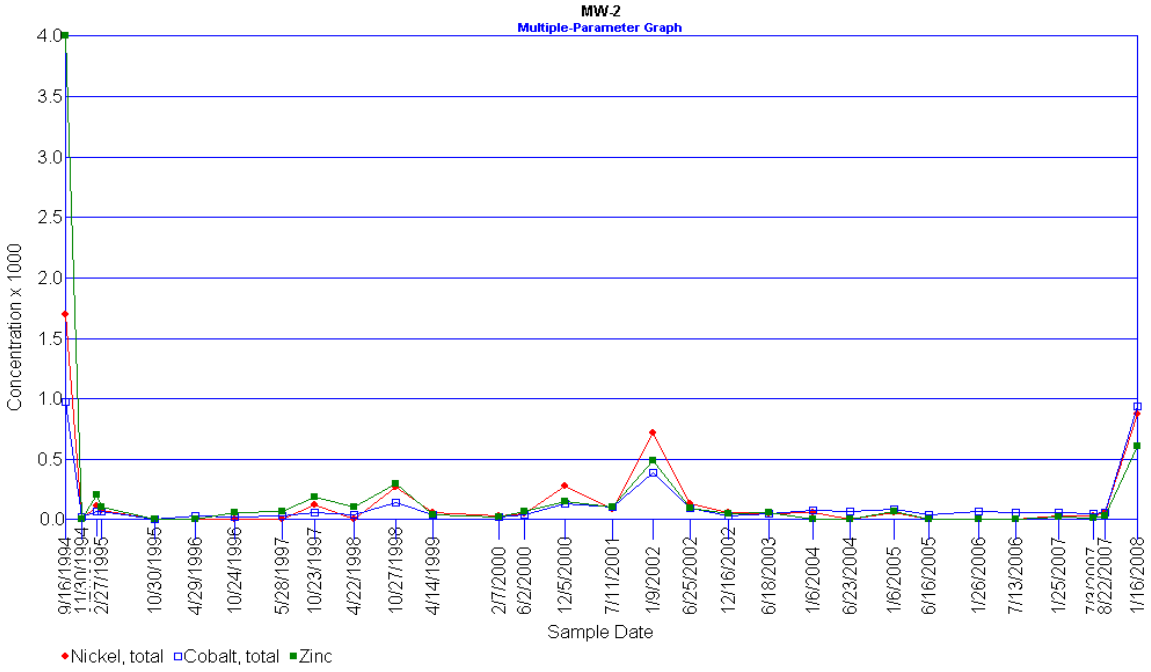


Box Plots for Select Constituents (VOCs)
City of Albemarle Closed MSWLF and C&D Landfill

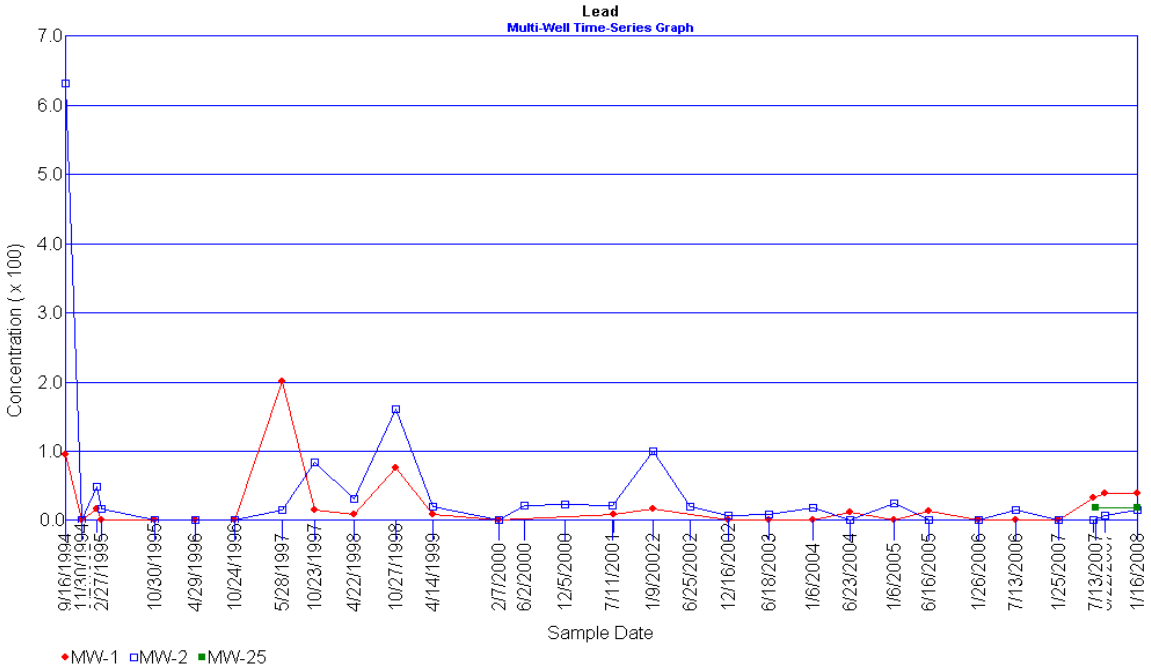


Time Series Plot for Select Constituents
City of Albemarle Closed MSWLF and C&D Landfill

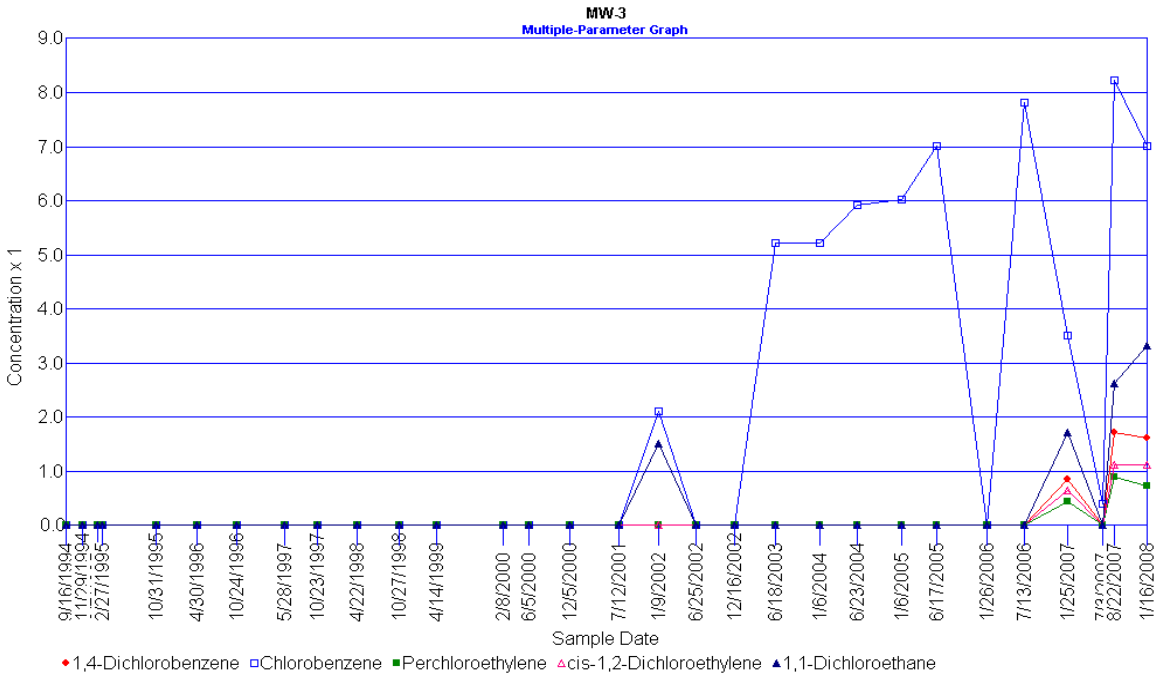


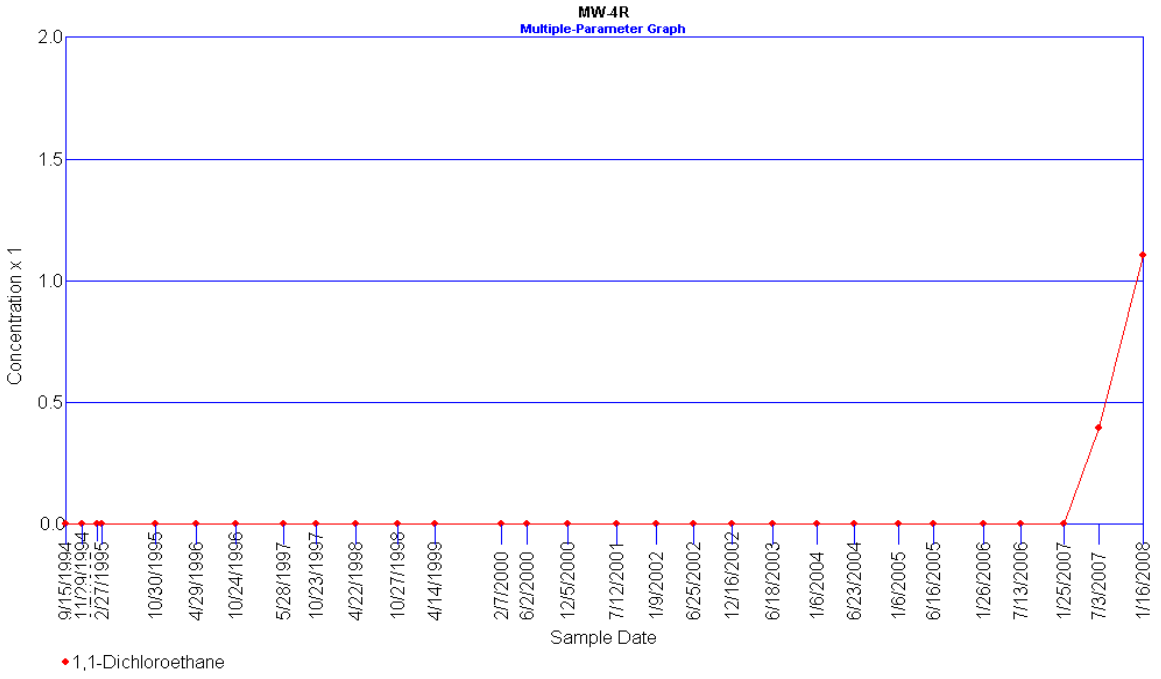


Time Series Plot for Select Constituents
City of Albemarle Closed MSWLF and C&D Landfill

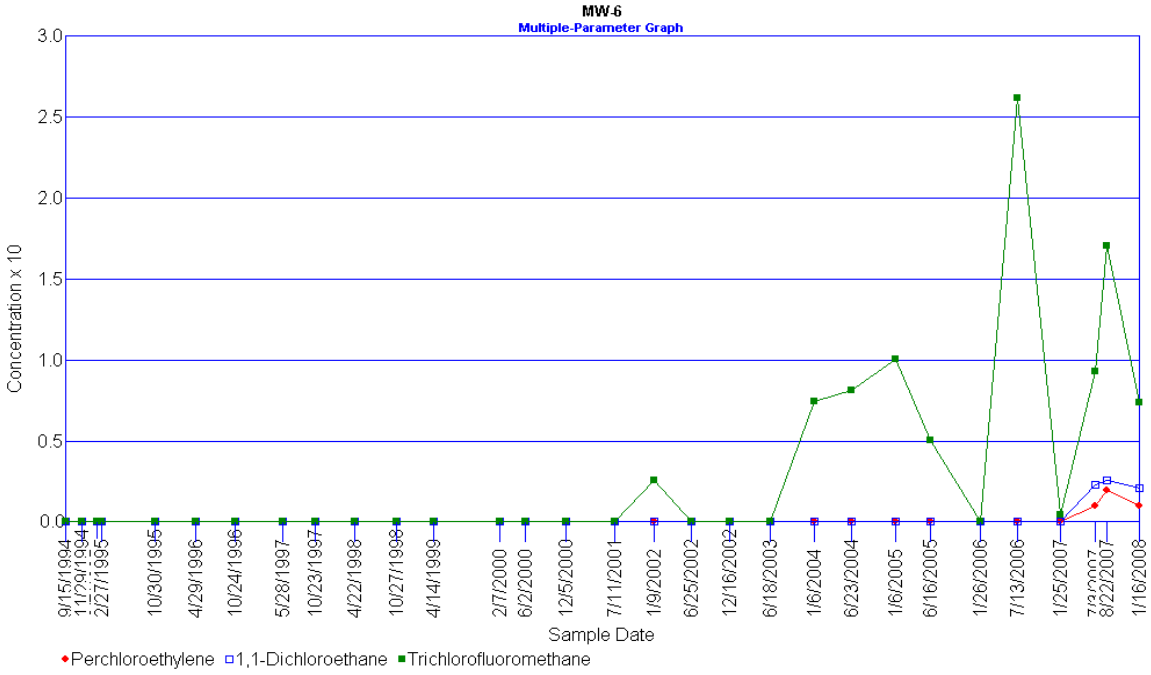


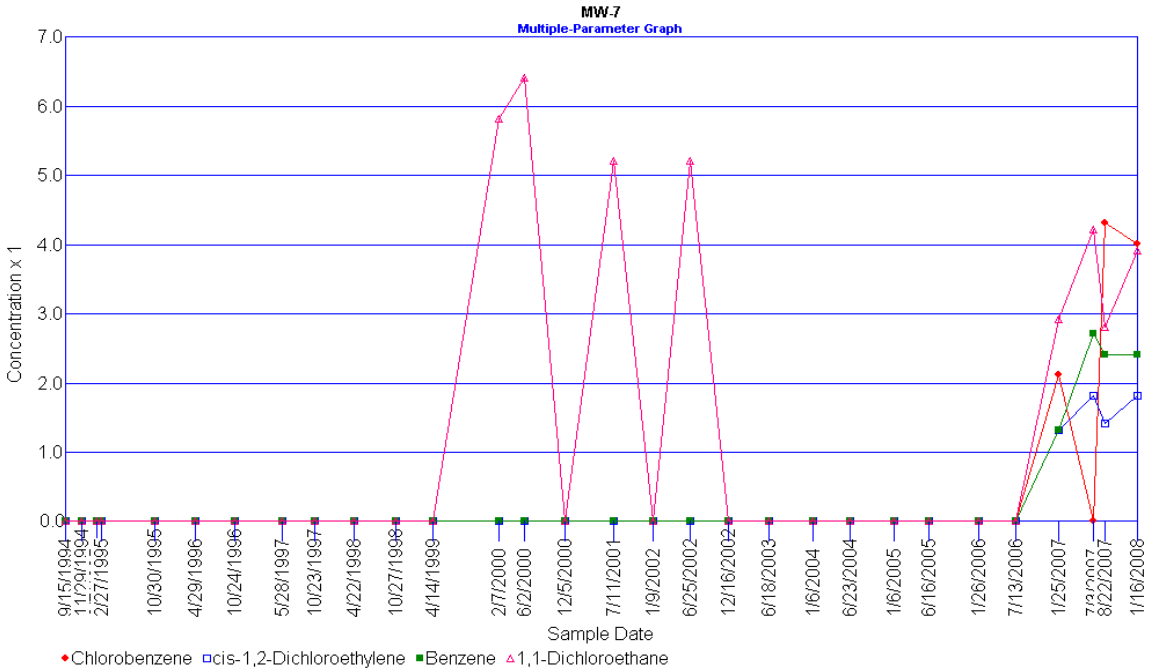
Time Series Plot for Select Constituents
City of Albemarle Closed MSWLF and C&D Landfill



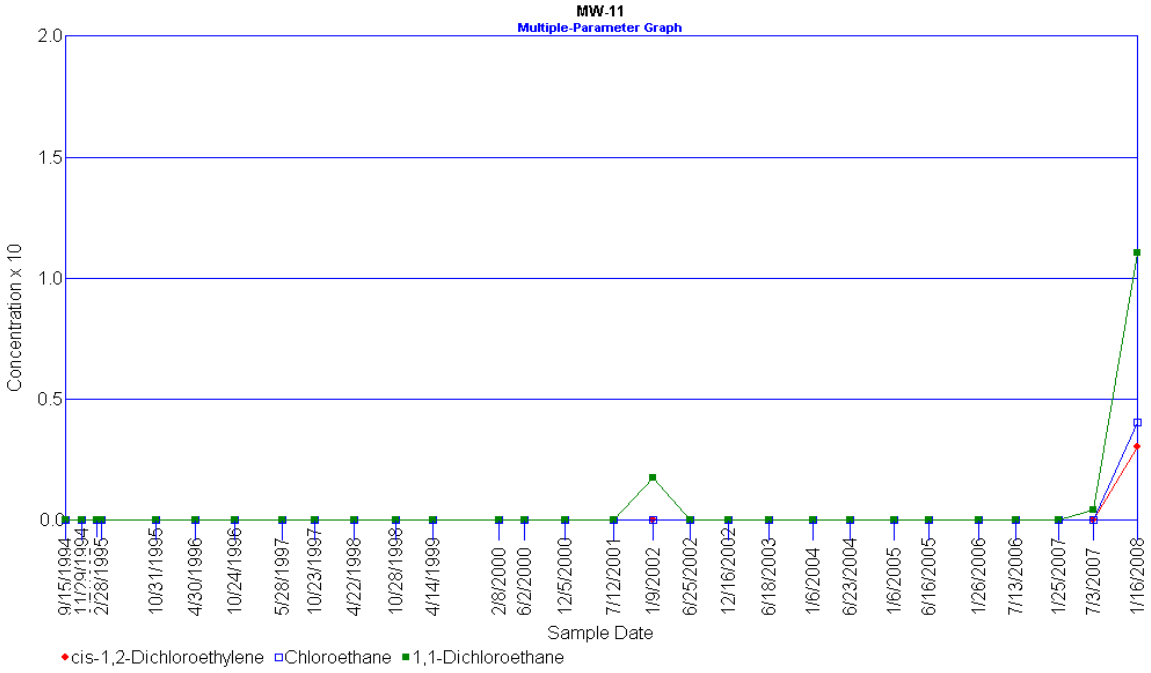


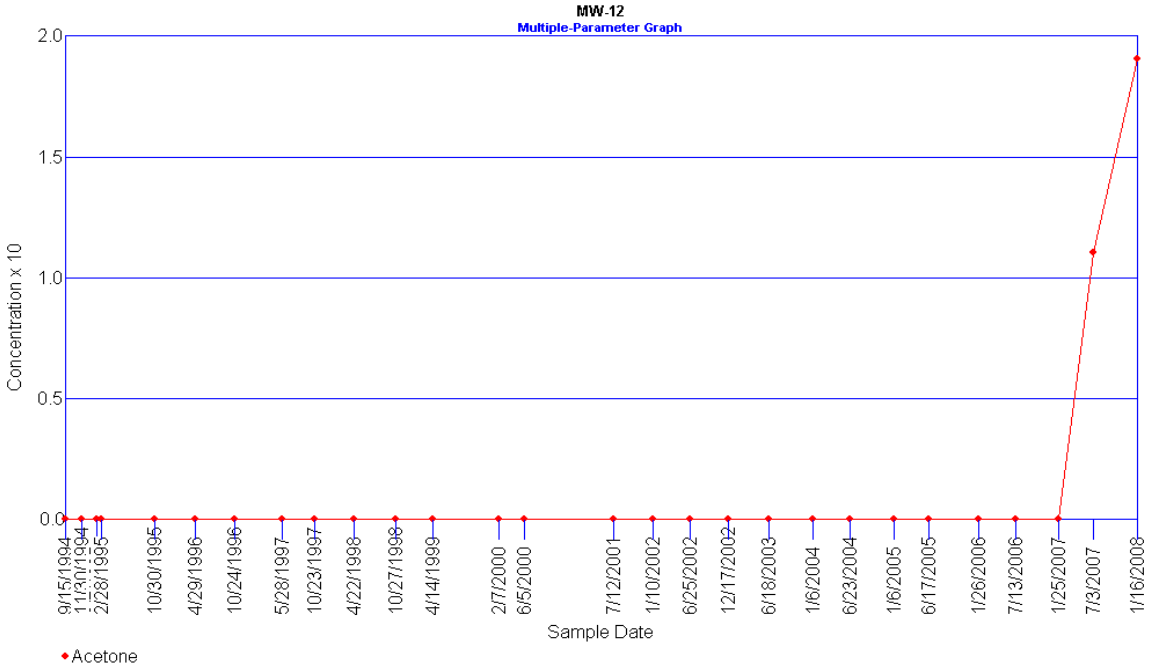
Time Series Plot for Select Constituents
City of Albemarle Closed MSWLF and C&D Landfill



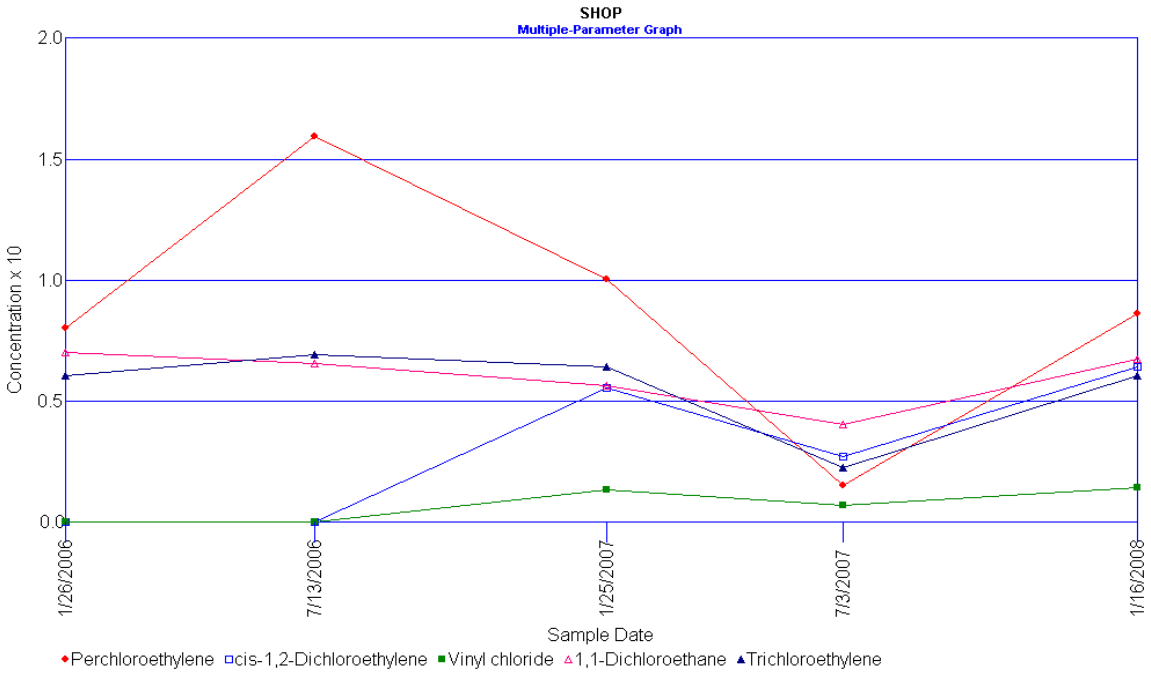


Time Series Plot for Select Constituents
City of Albemarle Closed MSWLF and C&D Landfill

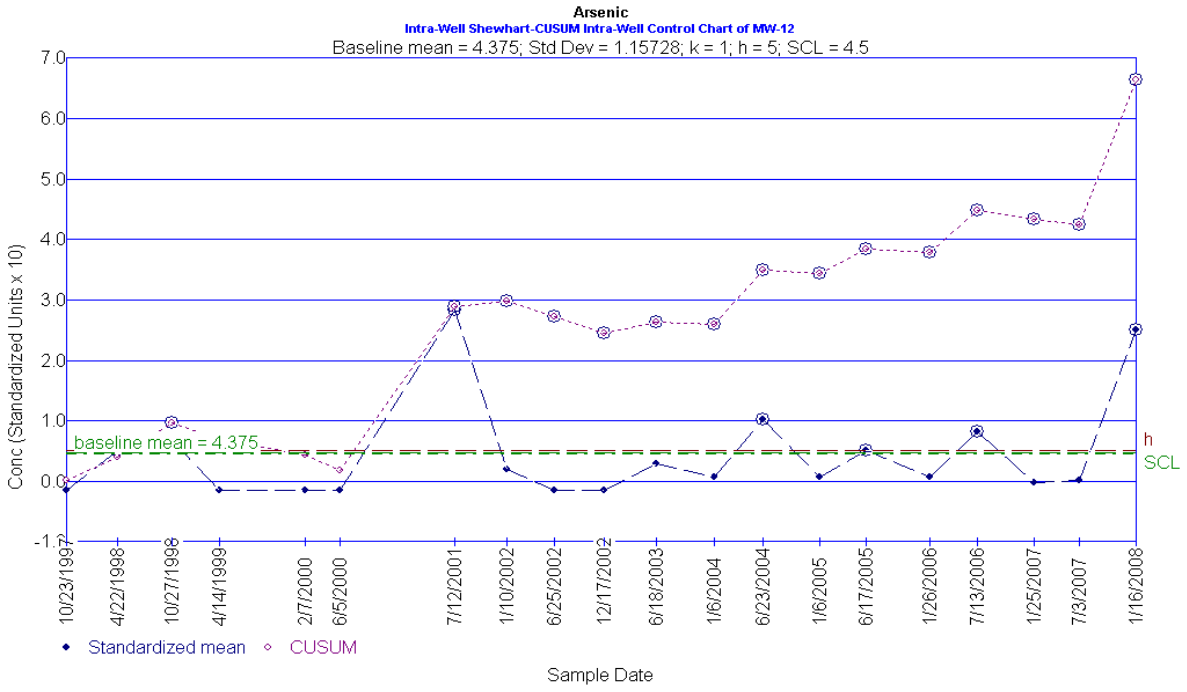


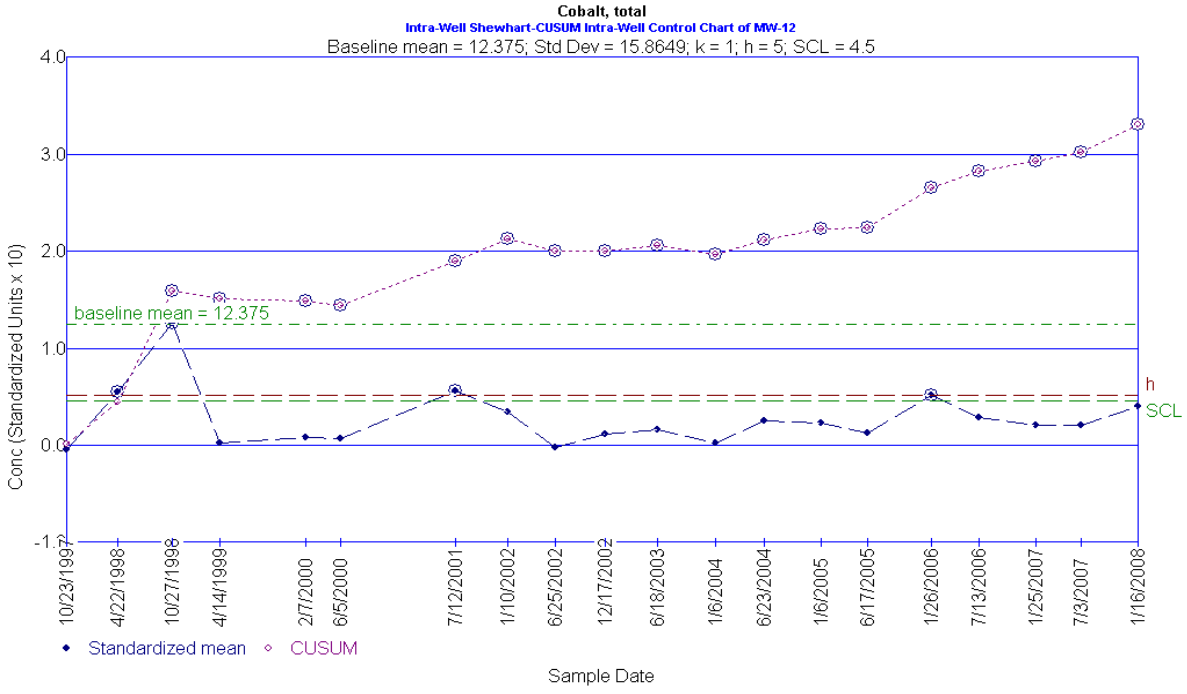


Time Series Plot for Select Constituents
City of Albemarle Closed MSWLF and C&D Landfill

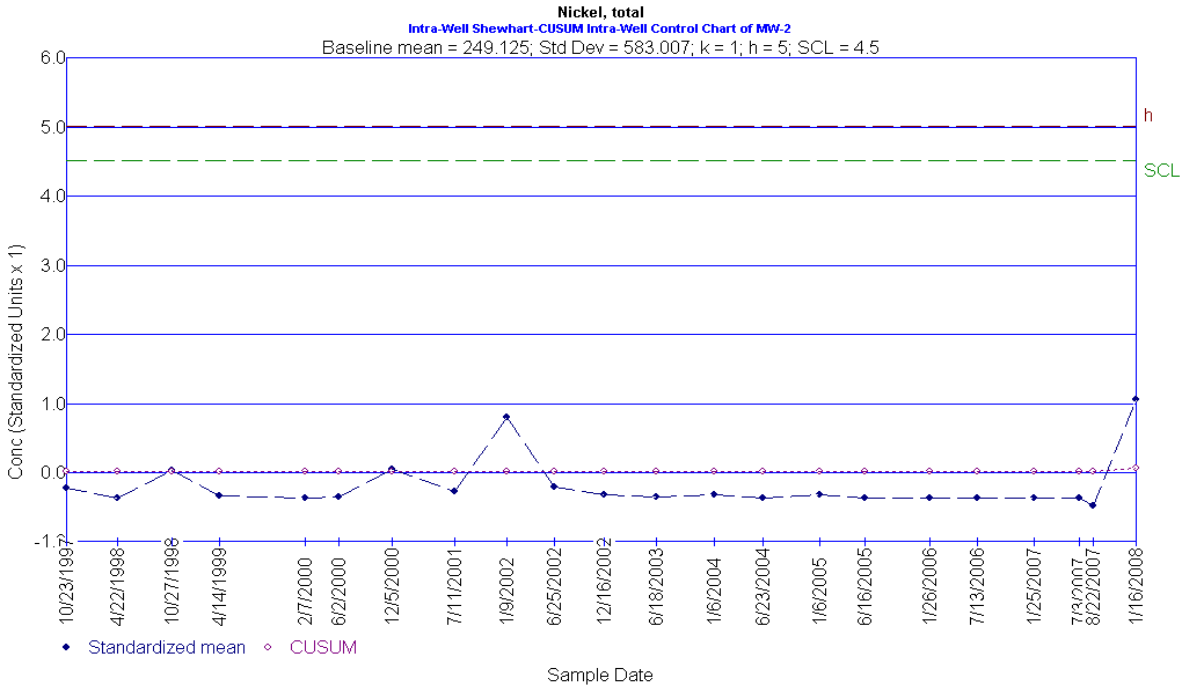


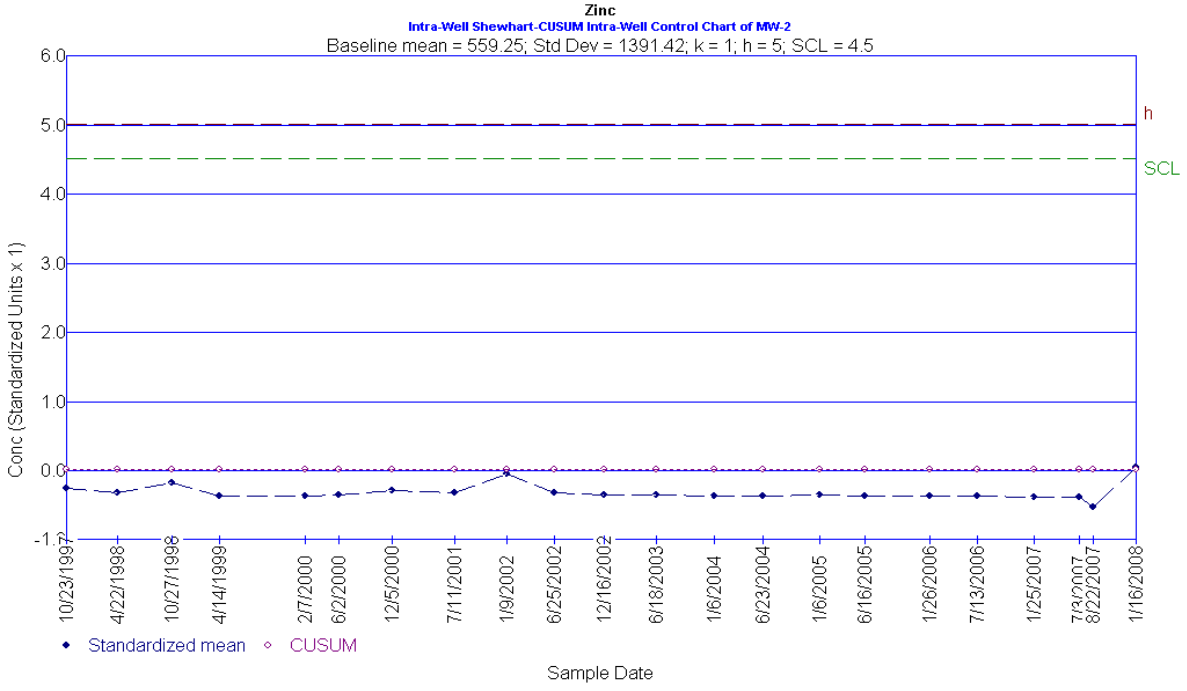
Shewhart-CUSUM Charts for Selected Constituents
City of Albemarle Closed MSWLF and C&D Landfill





Shewhart-CUSUM Charts for Selected Constituents
City of Albemarle Closed MSWLF and C&D Landfill





Basic Statistics

Basic Statistics

Parameter: Arsenic

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	194
Pooled Mean	8.68811
Pooled Std Dev	10.5768
Background Mean	5
Background Std Dev	4.43112

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	22	78.5714	140

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	5	4.43112	0	3569	127.464

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	26	89.6552	109.3
MW-12	28	17	60.7143	219.2
MW-4R	29	23	79.3103	167
MW-6	31	28	90.3226	110.2
MW-7	31	15	48.3871	378.5
MW-10	29	20	68.9655	170
MW-2	31	17	54.8387	266.1
MW-3	31	9	29.0323	386.1
MW-9	30	12	40	490.1
MW-5R	18	1	5.55556	326.5
SHOP	5	3	60	22.8
MW-8D	2	1	50	7
MW-24	3	0	0	32.7
MW-25	3	0	0	24.2

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	3.76897	1.7403	-1.23103	2.58685	3178	109.586
MW-12	7.82857	8.49784	2.82857	2.60944	4478.5	159.946
MW-4R	5.75862	5.38845	0.758621	2.58685	3768.5	129.948
MW-6	3.55484	1.44426	-1.44516	2.54553	3355	108.226
MW-7	12.2097	14.3932	7.20968	2.54553	5909.5	190.629
MW-10	5.86207	4.75908	0.862069	2.58685	4196	144.69
MW-2	8.58387	7.80393	3.58387	2.54553	5306.5	171.177
MW-3	12.4548	9.10446	7.45484	2.54553	6825.5	220.177
MW-9	16.3367	21.3015	11.3367	2.56558	6029	200.967
MW-5R	18.1389	10.8406	13.1389	2.94969	4842.5	269.028
SHOP	4.56	1.40819	-0.44	4.74029	706.5	141.3
MW-8D	3.5	2.12132	-1.5	7.14626	292.5	146.25
MW-24	10.9	5.71577	5.9	5.93135	768	256
MW-25	8.06667	0.404145	3.06667	5.93135	731	243.667

Analysis of Variance Statistics

SS Wells	6742.85
SS Total	36580.8

Kruskal-Wallis Statistics

Non-Detect Rank	97.5
Background Rank Sum	3569
Background Rank Mean	127.464
H Statistic	74.8493
H Adjusted for Ties	94.3765

Basic Statistics

Parameter: Cadmium

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	302
Pooled Mean	0.682652
Pooled Std Dev	1.36947
Background Mean	0.582143
Background Std Dev	0.275954

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	24	85.7143	16.3

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	0.582143	0.275954	0	4880	174.286

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	28	96.5517	23.5
MW-12	28	21	75	53.2
MW-4R	29	25	86.2069	16.95
MW-6	31	30	96.7742	14.95
MW-7	31	30	96.7742	15.25
MW-10	29	28	96.5517	15.5
MW-2	31	28	90.3226	23.05
MW-3	31	31	100	14.5
MW-9	30	27	90	17.5
MW-5R	18	18	100	8.5
SHOP	5	5	100	2
MW-8D	2	1	50	1.45
MW-24	3	3	100	0.63
MW-25	3	3	100	0.63

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	0.810345	1.76859	0.228202	0.355447	4568	157.517
MW-12	1.9	3.88387	1.31786	0.358552	5438.5	194.232
MW-4R	0.584483	0.318788	0.0023399	0.355447	5028.5	173.397
MW-6	0.482258	0.0851943	-0.0998848	0.34977	4849	156.419
MW-7	0.491935	0.120483	-0.0902074	0.34977	4854	156.581
MW-10	0.534483	0.289119	-0.0476601	0.355447	4560	157.241
MW-2	0.743548	1.35325	0.161406	0.34977	5182	167.161
MW-3	0.467742	0.0851943	-0.114401	0.34977	4696.5	151.5
MW-9	0.583333	0.406485	0.00119048	0.352525	5040.5	168.017
MW-5R	0.472222	0.0808452	-0.109921	0.405303	2727	151.5
SHOP	0.4	0.136931	-0.182143	0.651342	757.5	151.5
MW-8D	0.725	0.671751	0.142857	0.981935	465.5	232.75
MW-24	0.21	0.034641	-0.372143	0.814999	454.5	151.5
MW-25	0.21	0.034641	-0.372143	0.814999	454.5	151.5

Analysis of Variance Statistics

SS Wells	49.9217
SS Total	613.269

Kruskal-Wallis Statistics

Non-Detect Rank	151.5
Background Rank Sum	4880
Background Rank Mean	174.286
H Statistic	6.30354
H Adjusted for Ties	28.7238

Basic Statistics

Parameter: Chromium

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	159
Pooled Mean	19.746
Pooled Std Dev	44.5114
Background Mean	7.57857
Background Std Dev	11.2686

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	15	53.5714	212.2

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	7.57857	11.2686	0	3986	142.357

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	10	34.4828	1753.7
MW-12	28	9	32.1429	544.8
MW-4R	29	17	58.6207	204.7
MW-6	31	17	54.8387	204.7
MW-7	31	18	58.0645	216
MW-10	29	15	51.7241	317.1
MW-2	31	14	45.1613	962.1
MW-3	31	21	67.7419	158
MW-9	30	9	30	1292.4
MW-5R	18	7	38.8889	486.5
SHOP	5	5	100	17
MW-8D	2	2	100	6
MW-24	3	0	0	26.2
MW-25	3	0	0	75.3

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	60.4724	76.8979	52.8938	11.0866	6247	215.414
MW-12	19.4571	32.9447	11.8786	11.1834	5400	192.857
MW-4R	7.05862	8.87764	-0.519951	11.0866	3927	135.414
MW-6	6.60323	7.30262	-0.975346	10.9095	4404	142.065
MW-7	6.96774	9.59567	-0.610829	10.9095	4303	138.806
MW-10	10.9345	15.6859	3.35591	11.0866	4480	154.483
MW-2	31.0355	84.0014	23.4569	10.9095	5444	175.613
MW-3	5.09677	6.61642	-2.4818	10.9095	3768	121.548
MW-9	43.08	59.1912	35.5014	10.9954	6535	217.833
MW-5R	27.0278	35.658	19.4492	12.6416	3421	190.056
SHOP	3.4	2.19089	-4.17857	20.3157	400	80
MW-8D	3	2.82843	-4.57857	30.627	160	80
MW-24	8.73333	4.38786	1.15476	25.4202	671	223.667
MW-25	25.1	0.69282	17.5214	25.4202	810	270

Analysis of Variance Statistics

SS Wells	99823.5
SS Total	647873

Kruskal-Wallis Statistics

Non-Detect Rank	80
Background Rank Sum	3986
Background Rank Mean	142.357
H Statistic	47.4735
H Adjusted for Ties	53.5763

Basic Statistics

Parameter: Cobalt, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	135
Pooled Mean	25.3732
Pooled Std Dev	79.9336
Background Mean	16.9179
Background Std Dev	14.2965

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	4	14.2857	473.7

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	16.9179	14.2965	0	5765	205.893

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	11	37.931	417.8
MW-12	28	4	14.2857	1162.6
MW-4R	29	21	72.4138	231.8
MW-6	31	24	77.4194	256.5
MW-7	31	26	83.871	181.8
MW-10	29	8	27.5862	317
MW-2	31	1	3.22581	3676.9
MW-3	31	14	45.1613	268.1
MW-9	30	19	63.3333	284.7
MW-5R	18	1	5.55556	963.8
SHOP	5	2	40	17.5
MW-8D	2	0	0	8.9
MW-24	3	0	0	27.2
MW-25	3	0	0	34.1

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	14.4069	14.3397	-2.51096	19.7327	4686	161.586
MW-12	41.5214	44.337	24.6036	19.9051	6485	231.607
MW-4R	7.9931	9.76243	-8.92475	19.7327	3158	108.897
MW-6	8.27419	12.9524	-8.64366	19.4175	3092	99.7419
MW-7	5.86452	8.73875	-11.0533	19.4175	2693	86.871
MW-10	10.931	9.39465	-5.98682	19.7327	4744	163.586
MW-2	118.61	231.713	101.692	19.4175	8770	282.903
MW-3	8.64839	9.34544	-8.26947	19.4175	4169	134.484
MW-9	9.49	11.8503	-7.42786	19.5705	3659	121.967
MW-5R	53.5444	49.664	36.6266	22.5005	4714	261.889
SHOP	3.5	1.41421	-13.4179	36.1594	553	110.6
MW-8D	4.45	0.494975	-12.4679	54.5123	303	151.5
MW-24	9.06667	2.88675	-7.85119	45.2449	555	185
MW-25	11.3667	1.61658	-5.55119	45.2449	610	203.333

Analysis of Variance Statistics

SS Wells	353124
SS Total	2.08933e+006

Kruskal-Wallis Statistics

Non-Detect Rank	68
Background Rank Sum	5765
Background Rank Mean	205.893
H Statistic	143.338
H Adjusted for Ties	154.08

Basic Statistics

Parameter: Copper, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	166
Pooled Mean	62.0817
Pooled Std Dev	94.9989
Background Mean	66.5821
Background Std Dev	46.6353

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	11	39.2857	1864.3

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	66.5821	46.6353	0	5395.5	192.696

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	13	44.8276	1627.6
MW-12	28	16	57.1429	1611.8
MW-4R	29	17	58.6207	1425
MW-6	31	19	61.2903	1554.1
MW-7	31	22	70.9677	1272
MW-10	29	15	51.7241	1360.1
MW-2	31	11	35.4839	3587.3
MW-3	31	19	61.2903	1261.2
MW-9	30	14	46.6667	1870.4
MW-5R	18	7	38.8889	2452.5
SHOP	5	2	40	298.5
MW-8D	2	0	0	7.2
MW-24	3	0	0	69.7
MW-25	3	0	0	101.1

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	56.1241	56.3104	-10.458	24.6214	4957.5	170.948
MW-12	57.5643	48.094	-9.01786	24.8364	4376	156.286
MW-4R	49.1379	43.5727	-17.4442	24.6214	4268.5	147.19
MW-6	50.1323	50.8668	-16.4499	24.2281	4343.5	140.113
MW-7	41.0323	45.5371	-25.5499	24.2281	3771	121.645
MW-10	46.9	43.7888	-19.6821	24.6214	4434.5	152.914
MW-2	115.719	244.311	49.1372	24.2281	6327.5	204.113
MW-3	40.6839	45.5916	-25.8983	24.2281	4040.5	130.339
MW-9	62.3467	50.3759	-4.23548	24.4189	5406	180.2
MW-5R	136.25	135.572	69.6679	28.0748	3723.5	206.861
SHOP	59.7	42.3363	-6.88214	45.1175	951	190.2
MW-8D	3.6	1.27279	-62.9821	68.0173	367	183.5
MW-24	23.2333	9.0644	-43.3488	56.4539	769	256.333
MW-25	33.7	1.55885	-32.8821	56.4539	825	275

Analysis of Variance Statistics

SS Wells	248085
SS Total	2.95111e+006

Kruskal-Wallis Statistics

Non-Detect Rank	83.5
Background Rank Sum	5395.5
Background Rank Mean	192.696
H Statistic	33.7809
H Adjusted for Ties	38.8119

Basic Statistics

Parameter: Nickel, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	172
Pooled Mean	47.786
Pooled Std Dev	120.221
Background Mean	68.2214
Background Std Dev	85.0115

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	16	57.1429	1910.2

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	68.2214	85.0115	0	4493	160.464

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	7	24.1379	2225.4
MW-12	28	9	32.1429	1962.5
MW-4R	29	20	68.9655	560.4
MW-6	31	23	74.1935	610.1
MW-7	31	22	70.9677	549.4
MW-10	29	13	44.8276	865.6
MW-2	31	10	32.2581	4978.6
MW-3	31	26	83.871	489.2
MW-9	30	15	50	730
MW-5R	18	9	50	634.8
SHOP	5	2	40	60.5
MW-8D	2	0	0	7.7
MW-24	3	0	0	24
MW-25	3	0	0	65.4

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	76.7379	87.9672	8.5165	30.428	6686.5	230.569
MW-12	70.0893	69.5868	1.86786	30.6938	6124.5	218.732
MW-4R	19.3241	12.4687	-48.8973	30.428	3584	123.586
MW-6	19.6806	23.0015	-48.5408	29.942	3541.5	114.242
MW-7	17.7226	11.2914	-50.4988	29.942	3803	122.677
MW-10	29.8483	15.3249	-38.3732	30.428	5195.5	179.155
MW-2	160.6	342.439	92.3786	29.942	6948	224.129
MW-3	15.7806	12.823	-52.4408	29.942	3171	102.29
MW-9	24.3333	17.7244	-43.8881	30.1779	4838.5	161.283
MW-5R	35.2667	36.4629	-32.9548	34.6959	3136.5	174.25
SHOP	12.1	11.803	-56.1214	55.758	718	143.6
MW-8D	3.85	1.48492	-64.3714	84.0584	366	183
MW-24	8	2.59808	-60.2214	69.7679	616	205.333
MW-25	21.8	0.173205	-46.4214	69.7679	734	244.667

Analysis of Variance Statistics

SS Wells	597875
SS Total	4.72619e+006

Kruskal-Wallis Statistics

Non-Detect Rank	86.5
Background Rank Sum	4493
Background Rank Mean	160.464
H Statistic	72.9551
H Adjusted for Ties	85.2475

Basic Statistics

Parameter: Vanadium

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	197
Pooled Mean	28.9591
Pooled Std Dev	90.7807
Background Mean	15.2464
Background Std Dev	14.7473

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	21	75	426.9

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	15.2464	14.7473	0	3889	138.893

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	11	37.931	1183.9
MW-12	28	17	60.7143	580.2
MW-4R	29	22	75.8621	461.4
MW-6	31	24	77.4194	393.1
MW-7	31	22	70.9677	495.9
MW-10	29	18	62.069	519.7
MW-2	31	14	45.1613	2333
MW-3	31	23	74.1935	384.3
MW-9	30	10	33.3333	1968.3
MW-5R	18	9	50	574.1
SHOP	5	4	80	54.4
MW-8D	2	2	100	13
MW-24	3	0	0	28.3
MW-25	3	0	0	82.1

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	40.8241	46.7715	25.5777	23.8791	6143	211.828
MW-12	20.7214	32.4919	5.475	24.0877	4399	157.107
MW-4R	15.9103	15.6258	0.663916	23.8791	3968	136.828
MW-6	12.6806	10.7876	-2.56578	23.4977	4066	131.161
MW-7	15.9968	18.8797	0.750346	23.4977	4417	142.484
MW-10	17.9207	19.033	2.67426	23.8791	4620	159.31
MW-2	75.2581	268.33	60.0116	23.4977	5941	191.645
MW-3	12.3968	13.4378	-2.84965	23.4977	4177	134.742
MW-9	65.61	88.6087	50.3636	23.6828	6700	223.333
MW-5R	31.8944	36.0227	16.648	27.2284	3332	185.111
SHOP	10.88	9.57324	-4.36643	43.7574	594	118.8
MW-8D	6.5	8.48528	-8.74643	65.9668	198	99
MW-24	9.43333	5.6003	-5.8131	54.752	690	230
MW-25	27.3667	1.1547	12.1202	54.752	822	274

Analysis of Variance Statistics

SS Wells	152346
SS Total	2.69485e+006

Kruskal-Wallis Statistics

Non-Detect Rank	99
Background Rank Sum	3889
Background Rank Mean	138.893
H Statistic	43.0311
H Adjusted for Ties	54.9325

Basic Statistics

Parameter: Zinc

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	124
Pooled Mean	61.3125
Pooled Std Dev	235.872
Background Mean	80.3571
Background Std Dev	78.0219

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	6	21.4286	2250

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	80.3571	78.0219	0	6208	221.714

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	9	31.0345	1289.7
MW-12	28	12	42.8571	952
MW-4R	29	11	37.931	1108.8
MW-6	31	13	41.9355	1089.5
MW-7	31	14	45.1613	859.6
MW-10	29	14	48.2759	833.8
MW-2	31	8	25.8065	6899.4
MW-3	31	19	61.2903	585
MW-9	30	11	36.6667	2531.2
MW-5R	18	5	27.7778	1450.5
SHOP	5	2	40	103.6
MW-8D	2	0	0	21.6
MW-24	3	0	0	37.9
MW-25	3	0	0	97.9

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	44.4724	44.1416	-35.8847	62.0069	5121.5	176.603
MW-12	34	33.5065	-46.3571	62.5484	4209	150.321
MW-4R	38.2345	35.2129	-42.1227	62.0069	4648.5	160.293
MW-6	35.1452	47.1283	-45.212	61.0164	4523.5	145.919
MW-7	27.729	18.3446	-52.6281	61.0164	4392	141.677
MW-10	28.7517	23.9219	-51.6054	62.0069	4030	138.966
MW-2	222.561	713.963	142.204	61.0164	6487	209.258
MW-3	18.871	13.1383	-61.4862	61.0164	3396.5	109.565
MW-9	84.3733	215.821	4.01619	61.4971	5278.5	175.95
MW-5R	80.5833	83.4922	0.22619	70.704	3634.5	201.917
SHOP	20.72	5.99141	-59.6371	113.625	636	127.2
MW-8D	10.8	6.92965	-69.5571	171.296	292	146
MW-24	12.6333	4.04145	-67.7238	142.175	452	150.667
MW-25	32.6333	4.38786	-47.7238	142.175	647	215.667

Analysis of Variance Statistics

SS Wells	1.04908e+006
SS Total	1.81928e+007

Kruskal-Wallis Statistics

Non-Detect Rank	62.5
Background Rank Sum	6208
Background Rank Mean	221.714
H Statistic	38.7721
H Adjusted for Ties	40.9865

Basic Statistics

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	294
Pooled Mean	2.39335
Pooled Std Dev	1.06469
Background Mean	2.08464
Background Std Dev	0.91008

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	28	100	58.37

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	2.08464	0.91008	0	4130	147.5

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	26	89.6552	75.615
MW-12	28	28	100	63.09
MW-4R	29	27	93.1034	64.535
MW-6	31	27	87.0968	72.245
MW-7	31	22	70.9677	94.2
MW-10	29	29	100	65.59
MW-2	31	31	100	67.87
MW-3	31	26	83.871	76.7
MW-9	30	26	86.6667	72.99
MW-5R	18	18	100	38.09
SHOP	5	0	0	29.8
MW-8D	2	2	100	2.545
MW-24	3	3	100	0.135
MW-25	3	1	33.3333	3.245

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	2.60741	1.72295	0.522771	0.241953	4759	164.103
MW-12	2.25321	0.728996	0.168571	0.244066	4130	147.5
MW-4R	2.22534	0.71343	0.140702	0.241953	4575.5	157.776
MW-6	2.33048	0.562027	0.245841	0.238088	5206.5	167.952
MW-7	3.03871	1.10866	0.954067	0.238088	6101	196.806
MW-10	2.26172	0.717325	0.177081	0.241953	4277.5	147.5
MW-2	2.18935	0.820604	0.104712	0.238088	4572.5	147.5
MW-3	2.47419	0.275642	0.389551	0.238088	5368	173.161
MW-9	2.433	0.82607	0.348357	0.239964	5081	169.367
MW-5R	2.11611	0.887872	0.0314683	0.27589	2655	147.5
SHOP	5.96	1.21367	3.87536	0.443369	1616	323.2
MW-8D	1.2725	1.73595	-0.812143	0.668404	295	147.5
MW-24	0.045	8.49837e-018	-2.03964	0.554771	442.5	147.5
MW-25	1.08167	0.89778	-1.00298	0.554771	746.5	248.833

Analysis of Variance Statistics

SS Wells	109.648
SS Total	370.677

Kruskal-Wallis Statistics

Non-Detect Rank	147.5
Background Rank Sum	4130
Background Rank Mean	147.5
H Statistic	24.9661
H Adjusted for Ties	89.2106

Basic Statistics

Parameter: Acetone

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	323
Pooled Mean	38.8859
Pooled Std Dev	20.1678
Background Mean	36.4032
Background Std Dev	21.9203

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	26	92.8571	1019.29

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	36.4032	21.9203	0	4861	173.607

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	29	100	1213.4
MW-12	28	26	92.8571	1142.95
MW-4R	29	29	100	1213.4
MW-6	31	31	100	1214.14
MW-7	31	31	100	1261.64
MW-10	29	29	100	1213.4
MW-2	31	30	96.7742	1230.64
MW-3	31	31	100	1214.14
MW-9	30	30	100	1164.14
MW-5R	18	18	100	663.4
SHOP	5	5	100	150.9
MW-8D	2	2	100	50.45
MW-24	3	3	100	1.35
MW-25	3	3	100	1.35

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	41.8414	18.2114	5.43817	5.234	4698	162
MW-12	40.8196	18.139	4.41643	5.27971	4865	173.75
MW-4R	41.8414	18.2114	5.43817	5.234	4698	162
MW-6	39.1658	20.4158	2.76259	5.15039	5022	162
MW-7	40.6981	19.3256	4.29485	5.15039	5022	162
MW-10	41.8414	18.2114	5.43817	5.234	4698	162
MW-2	39.6981	19.6279	3.29485	5.15039	5188	167.355
MW-3	39.1658	20.4158	2.76259	5.15039	5022	162
MW-9	38.8047	20.6639	2.40145	5.19097	4860	162
MW-5R	36.8556	21.8372	0.452341	5.96812	2916	162
SHOP	30.18	27.1397	-6.22321	9.59107	810	162
MW-8D	25.225	35.0371	-11.1782	14.4591	324	162
MW-24	0.45	0	-35.9532	12.0009	486	162
MW-25	0.45	0	-35.9532	12.0009	486	162

Analysis of Variance Statistics

SS Wells	10854.8
SS Total	133005

Kruskal-Wallis Statistics

Non-Detect Rank	162
Background Rank Sum	4861
Background Rank Mean	173.607
H Statistic	0.720251
H Adjusted for Ties	15.9919

Basic Statistics

Parameter: Benzene

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	313
Pooled Mean	2.09662
Pooled Std Dev	0.890628
Background Mean	2.01571
Background Std Dev	0.948517

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	28	100	56.44

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	2.01571	0.948517	0	4396	157

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	29	100	63.62
MW-12	28	28	100	61.12
MW-4R	29	29	100	63.62
MW-6	31	28	90.3226	64.75
MW-7	31	26	83.871	76.2
MW-10	29	28	96.5517	66.62
MW-2	31	30	96.7742	65.89
MW-3	31	31	100	63.94
MW-9	30	27	90	62.18
MW-5R	18	18	100	36.12
SHOP	5	3	60	6.27
MW-8D	2	2	100	0.56
MW-24	3	3	100	0.18
MW-25	3	3	100	0.18

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	2.19379	0.783492	0.178079	0.221094	4553	157
MW-12	2.18286	0.795612	0.167143	0.223025	4396	157
MW-4R	2.19379	0.783492	0.178079	0.221094	4553	157
MW-6	2.08871	0.859243	0.0729954	0.217563	5350	172.581
MW-7	2.45806	0.220264	0.44235	0.217563	5707	184.097
MW-10	2.29724	0.994897	0.281527	0.221094	4724	162.897
MW-2	2.12548	0.87011	0.10977	0.217563	5025	162.097
MW-3	2.06258	0.911537	0.0468664	0.217563	4867	157
MW-9	2.07267	0.875167	0.0569524	0.219277	5194	173.133
MW-5R	2.00667	0.955677	-0.00904762	0.252105	2826	157
SHOP	1.254	1.16292	-0.761714	0.405146	1109	221.8
MW-8D	0.28	0.311127	-1.73571	0.61078	314	157
MW-24	0.06	0	-1.95571	0.506943	471	157
MW-25	0.06	0	-1.95571	0.506943	471	157

Analysis of Variance Statistics

SS Wells	41.42
SS Total	259.382

Kruskal-Wallis Statistics

Non-Detect Rank	157
Background Rank Sum	4396
Background Rank Mean	157
H Statistic	4.72097
H Adjusted for Ties	36.0331

Basic Statistics

Parameter: Chlorobenzene

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	298
Pooled Mean	2.37933
Pooled Std Dev	1.28656
Background Mean	2.05107
Background Std Dev	0.907912

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	28	100	57.43

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	2.05107	0.907912	0	4186	149.5

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	29	100	64.66
MW-12	28	28	100	62.16
MW-4R	29	28	96.5517	65
MW-6	31	29	93.5484	66.18
MW-7	31	27	87.0968	81.2
MW-10	29	24	82.7586	88.86
MW-2	31	27	87.0968	68.9
MW-3	31	19	61.2903	113.99
MW-9	30	28	93.3333	66.16
MW-5R	18	18	100	37.16
SHOP	5	5	100	6.66
MW-8D	2	2	100	1.58
MW-24	3	3	100	0.24
MW-25	3	3	100	0.24

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	2.22966	0.721934	0.178584	0.307338	4335.5	149.5
MW-12	2.22	0.733273	0.168929	0.310022	4186	149.5
MW-4R	2.24138	0.687728	0.190308	0.307338	4486	154.69
MW-6	2.13484	0.788128	0.0837673	0.302428	4940.5	159.371
MW-7	2.61935	0.561201	0.568283	0.302428	5284.5	170.468
MW-10	3.06414	2.28053	1.01307	0.307338	5198	179.241
MW-2	2.22258	0.669004	0.171509	0.302428	5252.5	169.435
MW-3	3.6771	2.11833	1.62603	0.302428	6651.5	214.565
MW-9	2.20533	0.709734	0.154262	0.304811	4801	160.033
MW-5R	2.06444	0.884442	0.013373	0.350445	2691	149.5
SHOP	1.332	1.21364	-0.719071	0.563182	747.5	149.5
MW-8D	0.79	1.00409	-1.26107	0.849029	299	149.5
MW-24	0.08	0	-1.97107	0.704689	448.5	149.5
MW-25	0.08	0	-1.97107	0.704689	448.5	149.5

Analysis of Variance Statistics

SS Wells	120.091
SS Total	541.26

Kruskal-Wallis Statistics

Non-Detect Rank	149.5
Background Rank Sum	4186
Background Rank Mean	149.5
H Statistic	12.9179
H Adjusted for Ties	51.6591

Basic Statistics

Parameter: Chloroethane

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	325
Pooled Mean	4.26311
Pooled Std Dev	1.71444
Background Mean	4.1525
Background Std Dev	1.8518

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	28	100	116.27

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	4.1525	1.8518	0	4564	163

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	28	96.5517	134.7
MW-12	28	27	96.4286	127.2
MW-4R	29	29	100	130.9
MW-6	31	31	100	131.27
MW-7	31	31	100	135.77
MW-10	29	29	100	130.9
MW-2	31	31	100	135.77
MW-3	31	31	100	131.27
MW-9	30	30	100	126.27
MW-5R	18	18	100	75.9
SHOP	5	4	80	15.68
MW-8D	2	2	100	5.2
MW-24	3	3	100	0.6
MW-25	3	3	100	0.6

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	4.64483	1.20463	0.492328	0.433725	4892	168.69
MW-12	4.54286	1.35658	0.390357	0.437513	4728	168.857
MW-4R	4.51379	1.45743	0.361293	0.433725	4727	163
MW-6	4.23452	1.77514	0.0820161	0.426797	5053	163
MW-7	4.37968	1.63829	0.227177	0.426797	5053	163
MW-10	4.51379	1.45743	0.361293	0.433725	4727	163
MW-2	4.37968	1.63829	0.227177	0.426797	5053	163
MW-3	4.23452	1.77514	0.0820161	0.426797	5053	163
MW-9	4.209	1.79969	0.0565	0.43016	4890	163
MW-5R	4.21667	1.80335	0.0641667	0.49456	2934	163
SHOP	3.136	2.55431	-1.0165	0.794783	978	195.6
MW-8D	2.6	3.39411	-1.5525	1.19818	326	163
MW-24	0.2	3.39935e-017	-3.9525	0.994481	489	163
MW-25	0.2	3.39935e-017	-3.9525	0.994481	489	163

Analysis of Variance Statistics

SS Wells	122.361
SS Total	961.155

Kruskal-Wallis Statistics

Non-Detect Rank	163
Background Rank Sum	4564
Background Rank Mean	163
H Statistic	0.720049
H Adjusted for Ties	26.4831

Basic Statistics

Parameter: cis-1,2-Dichloroethylene

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	310
Pooled Mean	2.2357
Pooled Std Dev	0.862772
Background Mean	2.08286
Background Std Dev	0.913961

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	28	100	58.32

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	2.08286	0.913961	0	4354	155.5

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	28	96.5517	68.57
MW-12	28	28	100	63.14
MW-4R	29	28	96.5517	66
MW-6	31	31	100	65.82
MW-7	31	26	83.871	72.7
MW-10	29	29	100	65.64
MW-2	31	31	100	67.82
MW-3	31	27	87.0968	69.43
MW-9	30	26	86.6667	75.14
MW-5R	18	18	100	38.14
SHOP	5	2	40	19.6
MW-8D	2	2	100	2.57
MW-24	3	3	100	0.21
MW-25	3	3	100	0.21

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	2.36448	0.58622	0.281626	0.209023	4678	161.31
MW-12	2.255	0.723395	0.172143	0.210849	4354	155.5
MW-4R	2.27586	0.674349	0.193005	0.209023	4665	160.862
MW-6	2.12323	0.876076	0.0403687	0.205684	4820.5	155.5
MW-7	2.34516	0.369539	0.262304	0.205684	5637	181.839
MW-10	2.26345	0.711815	0.180591	0.209023	4509.5	155.5
MW-2	2.18774	0.824689	0.104885	0.205684	4820.5	155.5
MW-3	2.23968	0.613082	0.15682	0.205684	5452.5	175.887
MW-9	2.50467	1.05812	0.42181	0.207305	5335	177.833
MW-5R	2.11889	0.881021	0.0360317	0.238341	2799	155.5
SHOP	3.92	1.88202	1.83714	0.383026	1287	257.4
MW-8D	1.285	1.71827	-0.797857	0.577433	311	155.5
MW-24	0.07	0	-2.01286	0.479266	466.5	155.5
MW-25	0.07	0	-2.01286	0.479266	466.5	155.5

Analysis of Variance Statistics

SS Wells	48.5994
SS Total	243.411

Kruskal-Wallis Statistics

Non-Detect Rank	155.5
Background Rank Sum	4354
Background Rank Mean	155.5
H Statistic	8.50876
H Adjusted for Ties	54.6254

Basic Statistics

Parameter: Vinyl chloride

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	320
Pooled Mean	3.9146
Pooled Std Dev	1.87712
Background Mean	3.82357
Background Std Dev	1.96331

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	28	100	107.06

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	3.82357	1.96331	0	4494	160.5

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	29	100	121.15
MW-12	28	28	100	116.15
MW-4R	29	29	100	121.15
MW-6	31	31	100	122.06
MW-7	31	29	93.5484	127.005
MW-10	29	29	100	121.15
MW-2	31	31	100	126.56
MW-3	31	31	100	122.06
MW-9	30	27	90	119.12
MW-5R	18	18	100	66.15
SHOP	5	2	40	13.35
MW-8D	2	2	100	0.575
MW-24	3	3	100	0.225
MW-25	3	3	100	0.225

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	4.17759	1.71023	0.354015	0.478017	4654.5	160.5
MW-12	4.14821	1.73415	0.324643	0.482191	4494	160.5
MW-4R	4.17759	1.71023	0.354015	0.478017	4654.5	160.5
MW-6	3.93742	1.89582	0.113848	0.470381	4975.5	160.5
MW-7	4.09694	1.76247	0.273364	0.470381	5299.5	170.952
MW-10	4.17759	1.71023	0.354015	0.478017	4654.5	160.5
MW-2	4.08258	1.79336	0.259009	0.470381	4975.5	160.5
MW-3	3.93742	1.89582	0.113848	0.470381	4975.5	160.5
MW-9	3.97067	1.80176	0.147095	0.474087	5309.5	176.983
MW-5R	3.675	2.02789	-0.148571	0.545064	2889	160.5
SHOP	2.67	2.14639	-1.15357	0.875944	1296	259.2
MW-8D	0.2875	0.30052	-3.53607	1.32054	321	160.5
MW-24	0.075	0	-3.74857	1.09604	481.5	160.5
MW-25	0.075	0	-3.74857	1.09604	481.5	160.5

Analysis of Variance Statistics

SS Wells	133.355
SS Total	1152.21

Kruskal-Wallis Statistics

Non-Detect Rank	160.5
Background Rank Sum	4494
Background Rank Mean	160.5
H Statistic	6.11585
H Adjusted for Ties	85.6549

Basic Statistics

Parameter: Trichlorofluoromethane

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	312
Pooled Mean	3.01024
Pooled Std Dev	2.41713
Background Mean	2.46821
Background Std Dev	1.5066

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	28	100	69.11

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	2.46821	1.5066	0	4382	156.5

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	29	100	83.66
MW-12	28	28	100	78.66
MW-4R	29	29	100	83.66
MW-6	31	20	64.5161	180.01
MW-7	31	26	83.871	91.39
MW-10	29	29	100	83.66
MW-2	31	31	100	88.61
MW-3	31	31	100	84.11
MW-9	30	30	100	81.61
MW-5R	18	18	100	56.16
SHOP	5	5	100	5.66
MW-8D	2	2	100	0.58
MW-24	3	3	100	0.24
MW-25	3	3	100	0.24

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	2.88483	1.52852	0.416613	0.592833	4538.5	156.5
MW-12	2.80929	1.50042	0.341071	0.598011	4382	156.5
MW-4R	2.88483	1.52852	0.416613	0.592833	4538.5	156.5
MW-6	5.80677	5.41187	3.33856	0.583363	6679	215.452
MW-7	2.94806	1.47501	0.47985	0.583363	5648	182.194
MW-10	2.88483	1.52852	0.416613	0.592833	4538.5	156.5
MW-2	2.85839	1.61588	0.390173	0.583363	4851.5	156.5
MW-3	2.71323	1.6192	0.245012	0.583363	4851.5	156.5
MW-9	2.72033	1.64639	0.252119	0.587959	4695	156.5
MW-5R	3.12	1.92191	0.651786	0.675984	2817	156.5
SHOP	1.132	1.26052	-1.33621	1.08634	782.5	156.5
MW-8D	0.29	0.296985	-2.17821	1.63772	313	156.5
MW-24	0.08	0	-2.38821	1.3593	469.5	156.5
MW-25	0.08	0	-2.38821	1.3593	469.5	156.5

Analysis of Variance Statistics

SS Wells	343.428
SS Total	1910.5

Kruskal-Wallis Statistics

Non-Detect Rank	156.5
Background Rank Sum	4382
Background Rank Mean	156.5
H Statistic	11.9216
H Adjusted for Ties	85.5701

Basic Statistics

Parameter: Trichloroethylene

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	311
Pooled Mean	2.16383
Pooled Std Dev	0.984319
Background Mean	2.0175
Background Std Dev	0.944608

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	28	100	56.49

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	2.0175	0.944608	0	4368	156

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	29	100	63.73
MW-12	28	28	100	61.23
MW-4R	29	29	100	63.73
MW-6	31	29	93.5484	64.67
MW-7	31	28	90.3226	66.53
MW-10	29	29	100	63.73
MW-2	31	31	100	65.99
MW-3	31	27	87.0968	66.97
MW-9	30	27	90	71.63
MW-5R	18	18	100	36.23
SHOP	5	0	0	27.5
MW-8D	2	2	100	0.615
MW-24	3	3	100	0.345
MW-25	3	3	100	0.345

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	2.19759	0.772849	0.180086	0.225251	4524	156
MW-12	2.18679	0.784799	0.169286	0.227218	4368	156
MW-4R	2.19759	0.772849	0.180086	0.225251	4524	156
MW-6	2.08613	0.862328	0.068629	0.221653	5155	166.29
MW-7	2.14613	0.822822	0.128629	0.221653	5310	171.29
MW-10	2.19759	0.772849	0.180086	0.225251	4524	156
MW-2	2.12871	0.862877	0.11121	0.221653	4836	156
MW-3	2.16032	0.71573	0.142823	0.221653	5483	176.871
MW-9	2.38767	0.940981	0.370167	0.223399	5180	172.667
MW-5R	2.01278	0.942572	-0.00472222	0.256844	2808	156
SHOP	5.5	1.88149	3.4825	0.412762	1628	325.6
MW-8D	0.3075	0.272236	-1.71	0.622262	312	156
MW-24	0.115	0	-1.9025	0.516473	468	156
MW-25	0.115	0	-1.9025	0.516473	468	156

Analysis of Variance Statistics

SS Wells	90.591
SS Total	316.825

Kruskal-Wallis Statistics

Non-Detect Rank	156
Background Rank Sum	4368
Background Rank Mean	156
H Statistic	16.9571
H Adjusted for Ties	114.91

Basic Statistics

Parameter: Perchloroethylene

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	306
Pooled Mean	2.23093
Pooled Std Dev	1.29785
Background Mean	2.02571
Background Std Dev	0.927825

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	28	100	56.72

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	2.02571	0.927825	0	4298	153.5

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	29	100	63.75
MW-12	28	28	100	61.25
MW-4R	29	29	100	63.75
MW-6	31	27	87.0968	68.765
MW-7	31	26	83.871	68.59
MW-10	29	29	100	63.75
MW-2	31	31	100	66.22
MW-3	31	27	87.0968	66.38
MW-9	30	26	86.6667	70.945
MW-5R	18	18	100	36.25
SHOP	5	0	0	44
MW-8D	2	2	100	0.625
MW-24	3	3	100	0.375
MW-25	3	3	100	0.375

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	2.19828	0.770926	0.172562	0.258441	4451.5	153.5
MW-12	2.1875	0.782846	0.161786	0.260698	4298	153.5
MW-4R	2.19828	0.770926	0.172562	0.258441	4451.5	153.5
MW-6	2.21823	0.655544	0.192512	0.254313	5422.5	174.919
MW-7	2.21258	0.669383	0.186866	0.254313	5551	179.065
MW-10	2.19828	0.770926	0.172562	0.258441	4451.5	153.5
MW-2	2.13613	0.845325	0.110415	0.254313	4758.5	153.5
MW-3	2.14129	0.748642	0.115576	0.254313	5392.5	173.952
MW-9	2.36483	0.882765	0.339119	0.256316	5264	175.467
MW-5R	2.01389	0.940206	-0.0118254	0.29469	2763	153.5
SHOP	8.8	5.14344	6.77429	0.473582	1626	325.2
MW-8D	0.3125	0.265165	-1.71321	0.713951	307	153.5
MW-24	0.125	0	-1.90071	0.592575	460.5	153.5
MW-25	0.125	0	-1.90071	0.592575	460.5	153.5

Analysis of Variance Statistics

SS Wells	252.988
SS Total	550.804

Kruskal-Wallis Statistics

Non-Detect Rank	153.5
Background Rank Sum	4298
Background Rank Mean	153.5
H Statistic	18.8644
H Adjusted for Ties	100.329

Basic Statistics

Parameter: 1,4-Dichlorobenzene

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
328	
Total Non-Detects	310
Pooled Mean	2.09053
Pooled Std Dev	0.845975
Background Mean	2.01714
Background Std Dev	0.945505

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	28	28	100	56.48

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	2.01714	0.945505	0	4354	155.5

Compliance Wells

There are 14 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-11	29	29	100	63.65
MW-12	28	28	100	61.15
MW-4R	29	29	100	63.65
MW-6	31	28	90.3226	64.39
MW-7	31	27	87.0968	69.455
MW-10	29	29	100	63.65
MW-2	31	27	87.0968	68.025
MW-3	31	27	87.0968	69.34
MW-9	30	27	90	63.08
MW-5R	18	18	100	36.15
SHOP	5	5	100	5.65
MW-8D	2	2	100	0.575
MW-24	3	3	100	0.225
MW-25	3	3	100	0.225

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-11	2.19483	0.780578	0.177685	0.209322	4509.5	155.5
MW-12	2.18393	0.792652	0.166786	0.21115	4354	155.5
MW-4R	2.19483	0.780578	0.177685	0.209322	4509.5	155.5
MW-6	2.0771	0.88092	0.0599539	0.205978	5294	170.774
MW-7	2.24048	0.625386	0.223341	0.205978	5486.5	176.984
MW-10	2.19483	0.780578	0.177685	0.209322	4509.5	155.5
MW-2	2.19435	0.723131	0.177212	0.205978	5464.5	176.274
MW-3	2.23677	0.597151	0.219631	0.205978	5496.5	177.306
MW-9	2.10267	0.826499	0.0855238	0.207601	5157.5	171.917
MW-5R	2.00833	0.952087	-0.00880952	0.238682	2799	155.5
SHOP	1.13	1.26261	-0.887143	0.383573	777.5	155.5
MW-8D	0.2875	0.30052	-1.72964	0.578259	311	155.5
MW-24	0.075	0	-1.94214	0.479951	466.5	155.5
MW-25	0.075	0	-1.94214	0.479951	466.5	155.5

Analysis of Variance Statistics

SS Wells	38.6564
SS Total	234.025

Kruskal-Wallis Statistics

Non-Detect Rank	155.5
Background Rank Sum	4354
Background Rank Mean	155.5
H Statistic	3.467
H Adjusted for Ties	22.2578

Interwell Analyses for Metals

Non-Parametric Tolerance Interval

Parameter: Arsenic

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Percent Non-Detects = 51.9481%
Background Samples (n) = 28
Maximum Background Concentration = 25
Minimum Coverage = 89.9%
Average Coverage = 96.5517%

Well	Sample	Result	Impacted
MW-12	9/15/1994	ND<5	FALSE
MW-12	11/30/1994	ND<5	FALSE
MW-12	2/7/1995	ND<5	FALSE
MW-12	2/28/1995	ND<5	FALSE
MW-12	10/30/1995	ND<5	FALSE
MW-12	4/29/1996	ND<5	FALSE
MW-12	10/24/1996	ND<2.5	FALSE
MW-12	5/28/1997	ND<2.5	FALSE
MW-12	10/23/1997	ND<2.5	FALSE
MW-12	4/22/1998	10	FALSE
MW-12	10/27/1998	12	FALSE
MW-12	4/14/1999	ND<2.5	FALSE
MW-12	2/7/2000	ND<2.5	FALSE
MW-12	6/5/2000	ND<2.5	FALSE
MW-12	7/12/2001	37	TRUE
MW-12	1/10/2002	6.5	FALSE
MW-12	6/25/2002	ND<2.5	FALSE
MW-12	12/17/2002	ND<2.5	FALSE
MW-12	6/18/2003	7.6	FALSE
MW-12	1/6/2004	ND<5	FALSE
MW-12	6/23/2004	16	FALSE
MW-12	1/6/2005	ND<5	FALSE
MW-12	6/17/2005	10	FALSE
MW-12	1/26/2006	ND<5	FALSE
MW-12	7/13/2006	13.6	FALSE
MW-12	1/25/2007	3.9	FALSE
MW-12	7/3/2007	4.4	FALSE
MW-12	1/16/2008	33.2	TRUE
MW-5R	4/14/1999	20	FALSE
MW-5R	2/7/2000	46	TRUE
MW-5R	6/2/2000	22	FALSE
MW-5R	12/5/2000	10	FALSE
MW-5R	7/12/2001	17	FALSE
MW-5R	1/9/2002	17	FALSE
MW-5R	6/25/2002	34	TRUE
MW-5R	12/16/2002	5.8	FALSE
MW-5R	6/18/2003	5.4	FALSE
MW-5R	1/6/2004	ND<5	FALSE
MW-5R	6/23/2004	17	FALSE
MW-5R	1/6/2005	28	TRUE
MW-5R	6/16/2005	21	FALSE
MW-5R	1/26/2006	22	FALSE
MW-5R	7/13/2006	25.7	TRUE
MW-5R	1/25/2007	7.3	FALSE
MW-5R	7/3/2007	8.9	FALSE
MW-5R	1/16/2008	14.4	FALSE
MW-24	7/13/2007	7.6	FALSE
MW-24	7/13/2007	7.6	FALSE
MW-24	1/16/2008	17.5	FALSE

Non-Parametric Tolerance Interval

Parameter: Cadmium

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Percent Non-Detects = 86.2069%
Background Samples (n) = 28
Maximum Background Concentration = 1.4
Minimum Coverage = 89.9%
Average Coverage = 96.5517%

Well	Sample	Result	Impacted
MW-12	9/15/1994	ND<0.5	FALSE
MW-12	11/30/1994	ND<0.5	FALSE
MW-12	2/7/1995	ND<0.5	FALSE
MW-12	2/28/1995	ND<0.5	FALSE
MW-12	10/30/1995	ND<0.5	FALSE
MW-12	4/29/1996	ND<0.5	FALSE
MW-12	10/24/1996	ND<0.5	FALSE
MW-12	5/28/1997	ND<0.5	FALSE
MW-12	10/23/1997	ND<0.5	FALSE
MW-12	4/22/1998	ND<0.5	FALSE
MW-12	10/27/1998	ND<0.5	FALSE
MW-12	4/14/1999	ND<0.5	FALSE
MW-12	2/7/2000	ND<0.5	FALSE
MW-12	6/5/2000	ND<0.5	FALSE
MW-12	7/12/2001	1.2	FALSE
MW-12	1/10/2002	18	TRUE
MW-12	6/25/2002	ND<0.5	FALSE
MW-12	12/17/2002	ND<0.5	FALSE
MW-12	6/18/2003	ND<0.5	FALSE
MW-12	1/6/2004	ND<0.5	FALSE
MW-12	6/23/2004	3.1	TRUE
MW-12	1/6/2005	ND<0.5	FALSE
MW-12	6/17/2005	12	TRUE
MW-12	1/26/2006	3.1	TRUE
MW-12	7/13/2006	ND<0.5	FALSE
MW-12	1/25/2007	3.1	TRUE
MW-12	7/3/2007	ND<0.5	FALSE
MW-12	1/16/2008	2.2	TRUE
MW-4R	9/15/1994	ND<0.5	FALSE
MW-4R	11/29/1994	ND<0.5	FALSE
MW-4R	2/7/1995	ND<0.5	FALSE
MW-4R	2/27/1995	ND<0.5	FALSE
MW-4R	10/30/1995	ND<0.5	FALSE
MW-4R	4/29/1996	ND<0.5	FALSE
MW-4R	10/24/1996	ND<0.5	FALSE
MW-4R	5/28/1997	ND<0.5	FALSE
MW-4R	10/23/1997	ND<0.5	FALSE
MW-4R	4/22/1998	ND<0.5	FALSE
MW-4R	10/27/1998	ND<0.5	FALSE
MW-4R	4/14/1999	ND<0.5	FALSE
MW-4R	2/7/2000	ND<0.5	FALSE
MW-4R	6/2/2000	ND<0.5	FALSE
MW-4R	12/5/2000	ND<0.5	FALSE
MW-4R	7/12/2001	ND<0.5	FALSE
MW-4R	1/9/2002	ND<0.5	FALSE
MW-4R	6/25/2002	ND<0.5	FALSE
MW-4R	12/16/2002	ND<0.5	FALSE
MW-4R	6/18/2003	ND<0.5	FALSE
MW-4R	1/6/2004	ND<0.5	FALSE
MW-4R	6/23/2004	ND<0.5	FALSE
MW-4R	1/6/2005	2	TRUE
MW-4R	6/16/2005	1.2	FALSE
MW-4R	1/26/2006	ND<0.5	FALSE
MW-4R	7/13/2006	ND<0.5	FALSE
MW-4R	1/25/2007	ND<0.25	FALSE
MW-4R	7/3/2007	0.5	FALSE
MW-4R	1/16/2008	1	FALSE
MW-7	9/15/1994	ND<0.5	FALSE
MW-7	11/29/1994	ND<0.5	FALSE
MW-7	2/7/1995	ND<0.5	FALSE

MW-7	2/27/1995	ND<0.5	FALSE
MW-7	10/30/1995	ND<0.5	FALSE
MW-7	4/29/1996	ND<0.5	FALSE
MW-7	10/24/1996	ND<0.5	FALSE
MW-7	5/28/1997	ND<0.5	FALSE
MW-7	10/23/1997	ND<0.5	FALSE
MW-7	4/22/1998	ND<0.5	FALSE
MW-7	10/27/1998	ND<0.5	FALSE
MW-7	4/14/1999	ND<0.5	FALSE
MW-7	2/7/2000	ND<0.5	FALSE
MW-7	6/2/2000	ND<0.5	FALSE
MW-7	12/5/2000	ND<0.5	FALSE
MW-7	7/11/2001	ND<0.5	FALSE
MW-7	1/9/2002	ND<0.5	FALSE
MW-7	6/25/2002	ND<0.5	FALSE
MW-7	12/16/2002	ND<0.5	FALSE
MW-7	6/18/2003	ND<0.5	FALSE
MW-7	1/6/2004	ND<0.5	FALSE
MW-7	6/23/2004	ND<0.5	FALSE
MW-7	1/6/2005	ND<0.5	FALSE
MW-7	6/16/2005	ND<0.5	FALSE
MW-7	1/26/2006	ND<0.5	FALSE
MW-7	7/13/2006	ND<0.5	FALSE
MW-7	1/25/2007	ND<0.25	FALSE
MW-7	7/3/2007	ND<0.5	FALSE
MW-7	8/22/2007	ND<0.25	FALSE
MW-7	8/22/2007	ND<0.25	FALSE
MW-7	1/16/2008	1	FALSE

Non-Parametric Tolerance Interval

Parameter: Chromium

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Percent Non-Detects = 48.3871%
Background Samples (n) = 28
Maximum Background Concentration = 60
Minimum Coverage = 89.9%
Average Coverage = 96.5517%

Well	Sample	Result	Impacted
MW-25	7/13/2007	24.7	FALSE
MW-25	7/13/2007	24.7	FALSE
MW-25	1/16/2008	25.9	FALSE

Shapiro-Wilks Test of Normality

Parameter: Cobalt, total

Background Wells

Normality Test of Parameter Concentrations

Natural Logarithm Transformation
Non-Detects Replaced with 1/2 DL
K = 14; Samples = 28

i	x(i)	x(n-i+1)	x(n-1+1)-x(i)	a(n-i+1)	b(i)
1	0.916291	4.2017	3.28541	0.4328	1.42193
2	0.916291	3.91202	2.99573	0.3993	1.1962
3	1.60944	3.73767	2.12823	0.251	0.534186
4	1.60944	3.16548	1.55604	0.2151	0.334704
5	1.60944	3.16548	1.55604	0.1857	0.288956
6	2.07944	2.89037	0.81093	0.1601	0.12983
7	2.18605	2.89037	0.70432	0.1372	0.0966328
8	2.26176	2.89037	0.628609	0.1162	0.0730443
9	2.30259	2.83321	0.530628	0.0965	0.0512056
10	2.30259	2.83321	0.530628	0.0778	0.0412829
11	2.48491	2.77882	0.293913	0.0598	0.017576
12	2.54945	2.71469	0.16525	0.0424	0.00700658
13	2.56495	2.70805	0.143101	0.0253	0.00362045
14	2.63906	2.70805	0.0689929	0.0084	0.00057954
15	2.70805	2.63906	-0.0689929		
16	2.70805	2.56495	-0.143101		
17	2.71469	2.54945	-0.16525		
18	2.77882	2.48491	-0.293913		
19	2.83321	2.30259	-0.530628		
20	2.83321	2.30259	-0.530628		
21	2.89037	2.26176	-0.628609		
22	2.89037	2.18605	-0.70432		
23	2.89037	2.07944	-0.81093		
24	3.16548	1.60944	-1.55604		
25	3.16548	1.60944	-1.55604		
26	3.73767	1.60944	-2.12823		
27	3.91202	0.916291	-2.99573		
28	4.2017	0.916291	-3.28541		

Sum of b values = 4.19675
Sample Standard Deviation = 0.768656
W Statistic = 1.10407
5% Critical value of 0.924 is less than 1.10407
Data is normally distributed at 95% level of significance
1% Critical value of 0.896 is less than 1.10407
Data is normally distributed at 99% level of significance

Parametric Tolerance Interval Analysis

Parameter: Cobalt, total

Natural Logarithm Transformation
Non-Detects Replaced with 1/2 DL

Background mean = 2.55219
Background standard deviation = 0.768656
One-sided normal tolerance factor at 95% confidence = 1.73344
Tolerance factor calculation follows USEPA 1992 Guidance
Upper tolerance limit = 3.8846

Well	Date	Result	Impacted
MW-2	9/16/1994	6.8773	TRUE
	11/30/1994	2.83321	FALSE
	2/7/1995	4.12713	TRUE
	2/27/1995	4.00733	TRUE
	10/30/1995	ND<1.60944	FALSE
	4/29/1996	2.99573	FALSE
	10/24/1996	2.89037	FALSE
	5/28/1997	3.04452	FALSE
	10/23/1997	3.98898	TRUE
	4/22/1998	3.3322	FALSE
	10/27/1998	4.86753	TRUE
	4/14/1999	3.46574	FALSE
	2/7/2000	2.48491	FALSE
	6/2/2000	3.46574	FALSE
	12/5/2000	4.78749	TRUE
	7/11/2001	4.60517	TRUE
	1/9/2002	5.94017	TRUE
	6/25/2002	4.46591	TRUE
	12/16/2002	3.13549	FALSE
	6/18/2003	3.61092	FALSE
	1/6/2004	4.26268	TRUE
	6/23/2004	4.11087	TRUE
	1/6/2005	4.38203	TRUE
	6/16/2005	3.3322	FALSE
	1/26/2006	4.08261	TRUE
	7/13/2006	3.84802	FALSE
	1/25/2007	3.97406	TRUE
	7/3/2007	3.60821	FALSE
	8/22/2007	3.98527	TRUE
	8/22/2007	3.98527	TRUE
	1/16/2008	6.83518	TRUE
MW-12	9/15/1994	ND<3.91202	TRUE
	11/30/1994	ND<1.60944	FALSE
	2/7/1995	2.70805	FALSE
	2/28/1995	2.56495	FALSE
	10/30/1995	ND<1.60944	FALSE
	4/29/1996	ND<1.60944	FALSE
	10/24/1996	1.09861	FALSE
	5/28/1997	1.09861	FALSE
	10/23/1997	1.38629	FALSE
	4/22/1998	4.58497	TRUE
	10/27/1998	5.34711	TRUE
	4/14/1999	2.70805	FALSE
	2/7/2000	3.17805	FALSE
	6/5/2000	3.09104	FALSE
	7/12/2001	4.60517	TRUE
	1/10/2002	4.17439	TRUE
	6/25/2002	2.06686	FALSE
	12/17/2002	3.3322	FALSE
	6/18/2003	3.61092	FALSE
	1/6/2004	2.70805	FALSE
	6/23/2004	3.93183	TRUE
	1/6/2005	3.85015	FALSE
	6/17/2005	3.4012	FALSE
	1/26/2006	4.53367	TRUE
	7/13/2006	4.01638	TRUE
	1/25/2007	3.78191	FALSE
	7/3/2007	3.77963	FALSE
	1/16/2008	4.29592	TRUE

Shapiro-Wilks Test of Normality

Parameter: Copper, total

Background Wells

Normality Test of Parameter Concentrations

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL
K = 14; Samples = 28

i	x(i)	x(n-i+1)	x(n-1+1)-x(i)	a(n-i+1)	b(i)
1	3.4	200	196.6	0.4328	85.0885
2	6.4	120	113.6	0.3993	45.3605
3	6.4	100	93.6	0.251	23.4936
4	8.5	100	91.5	0.2151	19.6817
5	17	100	83	0.1857	15.4131
6	24	100	76	0.1601	12.1676
7	24	100	76	0.1372	10.4272
8	27	100	73	0.1162	8.4826
9	29	100	71	0.0965	6.8515
10	38	100	62	0.0778	4.8236
11	42.5	100	57.5	0.0598	3.4385
12	45	100	55	0.0424	2.332
13	55.1	100	44.9	0.0253	1.13597
14	59	59	0	0.0084	0
15	59	59	0		
16	100	55.1	-44.9		
17	100	45	-55		
18	100	42.5	-57.5		
19	100	38	-62		
20	100	29	-71		
21	100	27	-73		
22	100	24	-76		
23	100	24	-76		
24	100	17	-83		
25	100	8.5	-91.5		
26	100	6.4	-93.6		
27	120	6.4	-113.6		
28	200	3.4	-196.6		

Sum of b values = 238.696
Sample Standard Deviation = 46.6353
W Statistic = 0.970283
5% Critical value of 0.924 is less than 0.970283
Data is normally distributed at 95% level of significance
1% Critical value of 0.896 is less than 0.970283
Data is normally distributed at 99% level of significance

Parametric Tolerance Interval Analysis

Parameter: Copper, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Background mean = 66.5821
Background standard deviation = 46.6353
One-sided normal tolerance factor at 95% confidence = 1.73344
Tolerance factor calculation follows USEPA 1992 Guidance
Upper tolerance limit = 147.421

Well	Date	Result	Impacted
MW-5R	4/14/1999	370	TRUE
	2/7/2000	450	TRUE
	6/2/2000	ND<1	FALSE
	12/5/2000	46	FALSE
	7/12/2001	180	TRUE
	1/9/2002	200	TRUE
	6/25/2002	390	TRUE
	12/16/2002	3.5	FALSE
	6/18/2003	4.9	FALSE
	1/6/2004	ND<100	FALSE
	6/23/2004	ND<100	FALSE
	1/6/2005	ND<100	FALSE
	6/16/2005	ND<100	FALSE
	1/26/2006	ND<100	FALSE
	7/13/2006	ND<100	FALSE
	1/25/2007	128	FALSE
	7/3/2007	16.7	FALSE
	1/16/2008	62.4	FALSE

Non-Parametric Tolerance Interval

Parameter: Nickel, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Percent Non-Detects = 40.2299%
Background Samples (n) = 28
Maximum Background Concentration = 250
Minimum Coverage = 89.9%
Average Coverage = 96.5517%

Well	Sample	Result	Impacted
MW-2	9/16/1994	1690	TRUE
MW-2	11/30/1994	ND<25	FALSE
MW-2	2/7/1995	108	FALSE
MW-2	2/27/1995	70	FALSE
MW-2	10/30/1995	ND<25	FALSE
MW-2	4/29/1996	ND<25	FALSE
MW-2	10/24/1996	ND<25	FALSE
MW-2	5/28/1997	ND<25	FALSE
MW-2	10/23/1997	110	FALSE
MW-2	4/22/1998	ND<25	FALSE
MW-2	10/27/1998	260	TRUE
MW-2	4/14/1999	48	FALSE
MW-2	2/7/2000	24	FALSE
MW-2	6/2/2000	39	FALSE
MW-2	12/5/2000	270	TRUE
MW-2	7/11/2001	79	FALSE
MW-2	1/9/2002	710	TRUE
MW-2	6/25/2002	120	FALSE
MW-2	12/16/2002	54	FALSE
MW-2	6/18/2003	37	FALSE
MW-2	1/6/2004	52	FALSE
MW-2	6/23/2004	ND<25	FALSE
MW-2	1/6/2005	54	FALSE
MW-2	6/16/2005	ND<25	FALSE
MW-2	1/26/2006	ND<25	FALSE
MW-2	7/13/2006	ND<25	FALSE
MW-2	1/25/2007	26.9	FALSE
MW-2	7/3/2007	21.7	FALSE
MW-2	8/22/2007	47	FALSE
MW-2	8/22/2007	47	FALSE
MW-2	1/16/2008	861	TRUE
MW-12	9/15/1994	ND<50	FALSE
MW-12	11/30/1994	60	FALSE
MW-12	2/7/1995	117	FALSE
MW-12	2/28/1995	ND<25	FALSE
MW-12	10/30/1995	ND<250	FALSE
MW-12	4/29/1996	76	FALSE
MW-12	10/24/1996	ND<25	FALSE
MW-12	5/28/1997	ND<25	FALSE
MW-12	10/23/1997	80	FALSE
MW-12	4/22/1998	150	FALSE
MW-12	10/27/1998	290	TRUE
MW-12	4/14/1999	31	FALSE
MW-12	2/7/2000	15	FALSE
MW-12	6/5/2000	31	FALSE
MW-12	7/12/2001	160	FALSE
MW-12	1/10/2002	110	FALSE
MW-12	6/25/2002	12	FALSE
MW-12	12/17/2002	25	FALSE
MW-12	6/18/2003	39	FALSE
MW-12	1/6/2004	ND<25	FALSE
MW-12	6/23/2004	50	FALSE
MW-12	1/6/2005	ND<25	FALSE
MW-12	6/17/2005	ND<25	FALSE
MW-12	1/26/2006	ND<25	FALSE
MW-12	7/13/2006	54.8	FALSE
MW-12	1/25/2007	34.2	FALSE
MW-12	7/3/2007	41.5	FALSE
MW-12	1/16/2008	111	FALSE

Non-Parametric Tolerance Interval

Parameter: Vanadium

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Percent Non-Detects = 61.7647%
Background Samples (n) = 28
Maximum Background Concentration = 70
Minimum Coverage = 89.9%
Average Coverage = 96.5517%

Well	Sample	Result	Impacted
MW-24	7/13/2007	6.2	FALSE
MW-24	7/13/2007	6.2	FALSE
MW-24	1/16/2008	15.9	FALSE
MW-25	7/13/2007	26.7	FALSE
MW-25	7/13/2007	26.7	FALSE
MW-25	1/16/2008	28.7	FALSE

Shapiro-Wilks Test of Normality

Parameter: Zinc

Background Wells

Normality Test of Parameter Concentrations

Natural Logarithm Transformation
Non-Detects Replaced with 1/2 DL
K = 14; Samples = 28

i	x(i)	x(n-i+1)	x(n-1+1)-x(i)	a(n-i+1)	b(i)
1	2.83321	5.8861	3.05289	0.4328	1.32129
2	3.07731	5.39363	2.31632	0.3993	0.924905
3	3.21888	5.34711	2.12823	0.251	0.534186
4	3.21888	5.15329	1.93442	0.2151	0.416093
5	3.21888	4.81218	1.59331	0.1857	0.295877
6	3.21888	4.81218	1.59331	0.1601	0.255089
7	3.21888	4.5326	1.31372	0.1372	0.180243
8	3.21888	4.48864	1.26976	0.1162	0.147546
9	3.49651	4.48074	0.984233	0.0965	0.0949784
10	3.52636	4.39445	0.868089	0.0778	0.0675373
11	3.58352	4.35671	0.77319	0.0598	0.0462368
12	3.73767	4.33073	0.593064	0.0424	0.0251459
13	3.80666	4.04305	0.236389	0.0253	0.00598064
14	3.91202	3.91202	0	0.0084	0
15	3.91202	3.91202	0		
16	4.04305	3.80666	-0.236389		
17	4.33073	3.73767	-0.593064		
18	4.35671	3.58352	-0.77319		
19	4.39445	3.52636	-0.868089		
20	4.48074	3.49651	-0.984233		
21	4.48864	3.21888	-1.26976		
22	4.5326	3.21888	-1.31372		
23	4.81218	3.21888	-1.59331		
24	4.81218	3.21888	-1.59331		
25	5.15329	3.21888	-1.93442		
26	5.34711	3.21888	-2.12823		
27	5.39363	3.07731	-2.31632		
28	5.8861	2.83321	-3.05289		

Sum of b values = 4.31511
Sample Standard Deviation = 0.809753
W Statistic = 1.05176
5% Critical value of 0.924 is less than 1.05176
Data is normally distributed at 95% level of significance
1% Critical value of 0.896 is less than 1.05176
Data is normally distributed at 99% level of significance

Parametric Tolerance Interval Analysis

Parameter: Zinc

Natural Logarithm Transformation
Non-Detects Replaced with 1/2 DL

Background mean = 4.04393
Background standard deviation = 0.809753
One-sided normal tolerance factor at 95% confidence = 1.73344
Tolerance factor calculation follows USEPA 1992 Guidance
Upper tolerance limit = 5.44758

Well	Date	Result	Impacted
MW-2	9/16/1994	8.29405	TRUE
	11/30/1994	ND<3.21888	FALSE
	2/7/1995	5.26269	FALSE
	2/27/1995	4.56435	FALSE
	10/30/1995	ND<3.21888	FALSE
	4/29/1996	ND<3.21888	FALSE
	10/24/1996	3.95124	FALSE
	5/28/1997	4.06044	FALSE
	10/23/1997	5.19296	FALSE
	4/22/1998	4.56435	FALSE
	10/27/1998	5.66988	TRUE
	4/14/1999	3.55535	FALSE
	2/7/2000	2.70805	FALSE
	6/2/2000	4.00733	FALSE
	12/5/2000	4.94164	FALSE
	7/11/2001	4.60517	FALSE
	1/9/2002	6.17379	TRUE
	6/25/2002	4.47734	FALSE
	12/16/2002	3.78419	FALSE
	6/18/2003	3.8712	FALSE
	1/6/2004	ND<3.21888	FALSE
	6/23/2004	ND<3.21888	FALSE
	1/6/2005	4.00733	FALSE
	6/16/2005	ND<3.21888	FALSE
	1/26/2006	ND<3.21888	FALSE
	7/13/2006	ND<3.21888	FALSE
	1/25/2007	2.62467	FALSE
	7/3/2007	2.02815	FALSE
	8/22/2007	3.21888	FALSE
	8/22/2007	3.21888	FALSE
	1/16/2008	6.40192	TRUE

Laboratory Results

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

Monday, January 28, 2008

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for
Project Number: G07009.0, Project Name/Desc: City of Albemarle Closed LF C&D
ENCO Workorder: C717832

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, January 17, 2008.

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 64.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-8D **Lab ID:** C717832-01 **Sampled:** 01/16/08 07:10 **Received:** 01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 14:57
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:01
EPA 8260B	01/30/08	01/19/08 11:19	1/20/2008 08:07

Client ID: MW-24 **Lab ID:** C717832-02 **Sampled:** 01/16/08 08:00 **Received:** 01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 15:04
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:04
EPA 8260B	01/30/08	01/19/08 11:19	1/20/2008 08:36

Client ID: MW-7 **Lab ID:** C717832-03 **Sampled:** 01/16/08 08:25 **Received:** 01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 15:11
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:07
EPA 8260B	01/30/08	01/19/08 11:19	1/20/2008 09:05

Client ID: SHOP **Lab ID:** C717832-04 **Sampled:** 01/16/08 09:00 **Received:** 01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 15:18
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:16
EPA 8260B	01/30/08	01/19/08 11:19	1/20/2008 09:35

Client ID: MW-5R **Lab ID:** C717832-05 **Sampled:** 01/16/08 09:25 **Received:** 01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 15:25
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:19
EPA 8260B	01/30/08	01/19/08 11:19	1/20/2008 10:04

Client ID: MW-4R **Lab ID:** C717832-06 **Sampled:** 01/16/08 10:00 **Received:** 01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 15:32
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:21
EPA 8260B	01/30/08	01/19/08 11:19	1/20/2008 10:33

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Client ID:	MW-11	Lab ID:	C717832-07	Sampled:	01/16/08 10:30	Received:	01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 15:39
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:24
EPA 8260B	01/30/08	01/19/08 11:19	1/20/2008 11:02

Client ID:	MW-25	Lab ID:	C717832-08	Sampled:	01/16/08 11:00	Received:	01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 15:46
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:27
EPA 8260B	01/30/08	01/19/08 11:19	1/20/2008 11:31

Client ID:	MW-2	Lab ID:	C717832-09	Sampled:	01/16/08 11:25	Received:	01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 15:53
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:30
EPA 8260B	01/30/08	01/22/08 09:22	1/22/2008 14:54

Client ID:	MW-6	Lab ID:	C717832-10	Sampled:	01/16/08 12:00	Received:	01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 16:18
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:33
EPA 8260B	01/30/08	01/22/08 09:22	1/22/2008 15:23

Client ID:	MW-12	Lab ID:	C717832-11	Sampled:	01/16/08 12:35	Received:	01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 16:25
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:36
EPA 8260B	01/30/08	01/22/08 09:22	1/22/2008 15:53

Client ID:	MW-3	Lab ID:	C717832-12	Sampled:	01/16/08 13:00	Received:	01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 16:32
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:39
EPA 8260B	01/30/08	01/22/08 09:22	1/22/2008 16:22

Client ID:	MW-9	Lab ID:	C717832-13	Sampled:	01/16/08 13:40	Received:	01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 16:39
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:42
EPA 8260B	01/30/08	01/22/08 09:22	1/22/2008 16:51

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Client ID: MW-10	Lab ID: C717832-14	Sampled: 01/16/08 14:30	Received: 01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 16:46
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 12:51
EPA 8260B	01/30/08	01/22/08 09:22	1/22/2008 17:20

Client ID: MW-1 MS/MSD	Lab ID: C717832-15	Sampled: 01/16/08 15:40	Received: 01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/14/08	01/22/08 06:58	1/24/2008 14:03
EPA 6020	07/14/08	01/22/08 07:08	1/23/2008 11:50
EPA 8260B	01/30/08	01/18/08 11:48	1/19/2008 03:24

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: MW-8D **Lab ID:** C717832-01

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony	1.17	J	1	0.68	2.00	6	ug/L	EPA 6020	
Arsenic	2.0	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	24.2	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Cobalt	4.8	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	4.50	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	4.9	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Thallium	0.037	J	1	0.036	1.00	5.5	ug/L	EPA 6020	
Zinc	15.7		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-24 **Lab ID:** C717832-02

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic	17.5		1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	18.5	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Chromium	13.8		1	2.0	10.0	10	ug/L	EPA 6010B	
Cobalt	12.4		1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	33.7		1	0.60	10.0	10	ug/L	EPA 6010B	
Lead	10.1		1	2.0	10.0	10	ug/L	EPA 6010B	
Nickel	11.0	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Thallium	0.049	J	1	0.036	1.00	5.5	ug/L	EPA 6020	
Vanadium	15.9	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	17.3		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-7 **Lab ID:** C717832-03

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	3.9	J	1	0.090	1.0	5	ug/L	EPA 8260B	
Arsenic	8.7	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	16.2	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Benzene	2.4		1	0.12	1.0	1	ug/L	EPA 8260B	
Cadmium	1.00		1	0.50	1.00	1	ug/L	EPA 6010B	
Chlorobenzene	4.0		1	0.16	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.8	J	1	0.14	1.0	5	ug/L	EPA 8260B	
Cobalt	3.3	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	4.70	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Methylene chloride	0.42	J	1	0.088	2.0	1	ug/L	EPA 8260B	
Nickel	4.7	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Tetrachloroethene	0.47	J	1	0.25	1.0	1	ug/L	EPA 8260B	
Trichlorofluoromethane	0.51	J	1	0.16	1.0	1	ug/L	EPA 8260B	
Zinc	7.1	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: SHOP **Lab ID:** C717832-04

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	6.7		1	0.090	1.0	5	ug/L	EPA 8260B	
1,1-Dichloroethene	0.89	J	1	0.14	1.0	5	ug/L	EPA 8260B	
Arsenic	5.7	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	1.40	J	1	0.20	10.0	100	ug/L	EPA 6010B	
cis-1,2-Dichloroethene	6.4		1	0.14	1.0	5	ug/L	EPA 8260B	
Cobalt	3.0	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	22.7		1	0.60	10.0	10	ug/L	EPA 6010B	
Methylene chloride	0.87	J	1	0.088	2.0	1	ug/L	EPA 8260B	

Client ID: SHOP **Lab ID:** C717832-04

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Nickel	2.9	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Tetrachloroethene	8.6		1	0.25	1.0	1	ug/L	EPA 8260B	
trans-1,2-Dichloroethene	0.40	J	1	0.10	1.0	5	ug/L	EPA 8260B	
Trichloroethene	6.0		1	0.23	1.0	1	ug/L	EPA 8260B	
Vanadium	1.4	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Vinyl chloride	1.4		1	0.15	1.0	1	ug/L	EPA 8260B	
Zinc	22.3		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-5R **Lab ID:** C717832-05

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic	14.4		1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	34.1	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Chromium	5.2	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Cobalt	62.2		1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	62.4		1	0.60	10.0	10	ug/L	EPA 6010B	
Lead	12.6		1	2.0	10.0	10	ug/L	EPA 6010B	
Nickel	13.6	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Vanadium	5.5	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	34.4		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-4R **Lab ID:** C717832-06

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.1	J	1	0.090	1.0	5	ug/L	EPA 8260B	
Antimony	0.89	J	1	0.68	2.00	6	ug/L	EPA 6020	
Arsenic	3.7	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	4.20	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Cadmium	1.00		1	0.50	1.00	1	ug/L	EPA 6010B	
Chlorobenzene	0.42	J	1	0.16	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	0.43	J	1	0.14	1.0	5	ug/L	EPA 8260B	
Cobalt	22.0		1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	8.60	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	16.9	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Zinc	8.9	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-11 **Lab ID:** C717832-07

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	11		1	0.090	1.0	5	ug/L	EPA 8260B	
Arsenic	2.2	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	32.6	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Chloroethane	4.0	J	1	0.40	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	3.0	J	1	0.14	1.0	5	ug/L	EPA 8260B	
Cobalt	8.9	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	2.00	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	47.7	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Zinc	3.4	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-25 **Lab ID:** C717832-08

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic	7.6	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	33.8	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Chromium	25.9		1	2.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-25 **Lab ID:** C717832-08

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Cobalt	9.5	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	35.5		1	0.60	10.0	10	ug/L	EPA 6010B	
Lead	16.3		1	2.0	10.0	10	ug/L	EPA 6010B	
Nickel	22.0	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Thallium	0.070	J	1	0.036	1.00	5.5	ug/L	EPA 6020	
Vanadium	28.7		1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	37.7		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-2 **Lab ID:** C717832-09

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	45.4	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Cadmium	0.80	J	1	0.50	1.00	1	ug/L	EPA 6010B	
Cobalt	930		1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	16.9		1	0.60	10.0	10	ug/L	EPA 6010B	
Lead	13.6		1	2.0	10.0	10	ug/L	EPA 6010B	
Nickel	861		1	2.0	10.0	50	ug/L	EPA 6010B	
Thallium	0.043	J	1	0.036	1.00	5.5	ug/L	EPA 6020	
Zinc	603		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-6 **Lab ID:** C717832-10

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	2.0	J	1	0.090	1.0	5	ug/L	EPA 8260B	
Barium	3.80	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Copper	3.00	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Methylene chloride	0.67	J	1	0.088	2.0	1	ug/L	EPA 8260B	
Nickel	2.7	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Selenium	2.8	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Tetrachloroethene	0.92	J	1	0.25	1.0	1	ug/L	EPA 8260B	
Trichlorofluoromethane	7.3		1	0.16	1.0	1	ug/L	EPA 8260B	
Zinc	4.6	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-12 **Lab ID:** C717832-11

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	19	J	1	0.90	5.0	100	ug/L	EPA 8260B	
Arsenic	33.2		1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	138		1	0.20	10.0	100	ug/L	EPA 6010B	
Cadmium	2.20		1	0.50	1.00	1	ug/L	EPA 6010B	
Chromium	7.8	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Cobalt	73.4		1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	40.1		1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	111		1	2.0	10.0	50	ug/L	EPA 6010B	
Thallium	0.099	J	1	0.036	1.00	5.5	ug/L	EPA 6020	
Zinc	30.9		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-3 **Lab ID:** C717832-12

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	3.3	J	1	0.090	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.6		1	0.15	1.0	1	ug/L	EPA 8260B	
Arsenic	5.4	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	15.4	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Chlorobenzene	7.0		1	0.16	1.0	3	ug/L	EPA 8260B	

Client ID: MW-3						Lab ID: C717832-12			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
cis-1,2-Dichloroethene	1.1	J	1	0.14	1.0	5	ug/L	EPA 8260B	
Cobalt	6.6	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	1.30	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	2.5	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Tetrachloroethene	0.71	J	1	0.25	1.0	1	ug/L	EPA 8260B	
Trichloroethene	0.82	J	1	0.23	1.0	1	ug/L	EPA 8260B	

Client ID: MW-9						Lab ID: C717832-13			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Arsenic	3.1	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	12.0	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Chromium	6.5	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	5.20	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	5.9	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Tetrachloroethene	0.42	J	1	0.25	1.0	1	ug/L	EPA 8260B	
Vanadium	7.3	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	11.0		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-10						Lab ID: C717832-14			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium	69.4	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Cobalt	3.5	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	1.70	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	13.0	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Silver	2.0	J	1	2.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-1 MS/MSD						Lab ID: C717832-15			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Acetone	4.6	J	1	0.90	5.0	100	ug/L	EPA 8260B	
Antimony	1.50	J	1	0.68	2.00	6	ug/L	EPA 6020	
Arsenic	6.2	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	177		1	0.20	10.0	100	ug/L	EPA 6010B	
Chromium	14.2		1	2.0	10.0	10	ug/L	EPA 6010B	
Cobalt	66.8		1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	55.1		1	0.60	10.0	10	ug/L	EPA 6010B	
Lead	37.8		1	2.0	10.0	10	ug/L	EPA 6010B	
Nickel	76.1		1	2.0	10.0	50	ug/L	EPA 6010B	
Thallium	0.097	J	1	0.036	1.00	5.5	ug/L	EPA 6020	
Vanadium	13.3	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	173		1	1.0	10.0	10	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: MW-8D
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-01
Sampled: 01/16/08 07:10
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 08:07	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/20/08 08:07	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/20/08 08:07	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 08:07	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/20/08 08:07	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/20/08 08:07	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/20/08 08:07	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/20/08 08:07	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/20/08 08:07	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/20/08 08:07	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/20/08 08:07	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/20/08 08:07	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/20/08 08:07	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/20/08 08:07	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/20/08 08:07	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/20/08 08:07	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/20/08 08:07	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 08:07	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 08:07	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/20/08 08:07	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/20/08 08:07	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/20/08 08:07	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/20/08 08:07	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/20/08 08:07	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/20/08 08:07	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/20/08 08:07	jkg	

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Description:	MW-8D	**Lab Sample ID:**	C717832-01	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 07:10	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/20/08 08:07	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 08:07	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/20/08 08:07	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*69-120*	*8A19004*	*EPA 8260B*	*01/20/08 08:07*	*jkg*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*61-120*	*8A19004*	*EPA 8260B*	*01/20/08 08:07*	*jkg*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*75-99*	*8A19004*	*EPA 8260B*	*01/20/08 08:07*	*jkg*	

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Description: MW-8D
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-01
Sampled: 01/16/08 07:10
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	**1.17**	J	ug/L	1	0.68	2.00	6	EPA 6020	01/23/08 12:01	JDH	
Arsenic [7440-38-2] *	**2.0**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 14:57	VLO	
Barium [7440-39-3] *	**24.2**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 14:57	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 14:57	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 14:57	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 14:57	VLO	
Cobalt [7440-48-4] *	**4.8**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 14:57	VLO	
Copper [7440-50-8] *	**4.50**	J	ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 14:57	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 14:57	VLO	
Nickel [7440-02-0] *	**4.9**	J	ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 14:57	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 14:57	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 14:57	VLO	
Thallium [7440-28-0] *	**0.037**	J	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:01	JDH	
Vanadium [7440-62-2] *	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 14:57	VLO	
Zinc [7440-66-6] *	**15.7**		ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 14:57	VLO	

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

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Description: MW-24
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-02
Sampled: 01/16/08 08:00
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 08:36	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/20/08 08:36	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/20/08 08:36	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 08:36	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/20/08 08:36	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/20/08 08:36	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/20/08 08:36	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/20/08 08:36	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/20/08 08:36	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/20/08 08:36	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/20/08 08:36	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/20/08 08:36	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/20/08 08:36	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/20/08 08:36	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/20/08 08:36	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/20/08 08:36	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/20/08 08:36	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 08:36	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 08:36	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/20/08 08:36	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/20/08 08:36	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/20/08 08:36	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/20/08 08:36	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/20/08 08:36	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/20/08 08:36	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 08:36	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/20/08 08:36	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 08:36	jkg	

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Description:	MW-24	**Lab Sample ID:**	C717832-02	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 08:00	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/20/08 08:36	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*69-120*	*8A19004*	*EPA 8260B*	*01/20/08 08:36*	*jkg*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*61-120*	*8A19004*	*EPA 8260B*	*01/20/08 08:36*	*jkg*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*75-99*	*8A19004*	*EPA 8260B*	*01/20/08 08:36*	*jkg*	

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Description: MW-24
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-02
Sampled: 01/16/08 08:00
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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	01/23/08 12:04	JDH	
Arsenic [7440-38-2] *	**17.5**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:04	VLO	
Barium [7440-39-3] *	**18.5**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 15:04	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 15:04	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 15:04	VLO	
Chromium [7440-47-3] *	**13.8**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:04	VLO	
Cobalt [7440-48-4] *	**12.4**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:04	VLO	
Copper [7440-50-8] *	**33.7**		ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 15:04	VLO	
Lead [7439-92-1] *	**10.1**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:04	VLO	
Nickel [7440-02-0] *	**11.0**	J	ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 15:04	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:04	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:04	VLO	
Thallium [7440-28-0] *	**0.049**	J	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:04	JDH	
Vanadium [7440-62-2] *	**15.9**	J	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 15:04	VLO	
Zinc [7440-66-6] *	**17.3**		ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 15:04	VLO	

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

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Description: MW-7
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-03
Sampled: 01/16/08 08:25
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 09:05	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/20/08 09:05	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
1,1-Dichloroethane [75-34-3] *	**3.9**	J	ug/L	1	0.090	1.0	5	EPA 8260B	01/20/08 09:05	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 09:05	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/20/08 09:05	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/20/08 09:05	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/20/08 09:05	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/20/08 09:05	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/20/08 09:05	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/20/08 09:05	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/20/08 09:05	jkg	
Benzene [71-43-2] *	**2.4**		ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/20/08 09:05	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/20/08 09:05	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/20/08 09:05	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/20/08 09:05	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
Chlorobenzene [108-90-7] *	**4.0**		ug/L	1	0.16	1.0	3	EPA 8260B	01/20/08 09:05	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/20/08 09:05	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 09:05	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
cis-1,2-Dichloroethene [156-59-2] *	**1.8**	J	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 09:05	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/20/08 09:05	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/20/08 09:05	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/20/08 09:05	jkg	
Methylene chloride [75-09-2] *	**0.42**	J	ug/L	1	0.088	2.0	1	EPA 8260B	01/20/08 09:05	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
Tetrachloroethene [127-18-4] *	**0.47**	J	ug/L	1	0.25	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/20/08 09:05	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/20/08 09:05	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
Trichlorofluoromethane [75-69-4] *	**0.51**	J	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 09:05	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/20/08 09:05	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 09:05	jkg	

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Description:	MW-7	**Lab Sample ID:**	C717832-03	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 08:25	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/20/08 09:05	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*69-120*	*8A19004*	*EPA 8260B*	*01/20/08 09:05*	*jkg*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*61-120*	*8A19004*	*EPA 8260B*	*01/20/08 09:05*	*jkg*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*75-99*	*8A19004*	*EPA 8260B*	*01/20/08 09:05*	*jkg*	

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Description: MW-7
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-03
Sampled: 01/16/08 08:25
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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	01/23/08 12:07	JDH	
Arsenic [7440-38-2] *	**8.7**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:11	VLO	
Barium [7440-39-3] *	**16.2**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 15:11	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 15:11	VLO	
Cadmium [7440-43-9] *	**1.00**		ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 15:11	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:11	VLO	
Cobalt [7440-48-4] *	**3.3**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:11	VLO	
Copper [7440-50-8] *	**4.70**	J	ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 15:11	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:11	VLO	
Nickel [7440-02-0] *	**4.7**	J	ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 15:11	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:11	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:11	VLO	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:07	JDH	
Vanadium [7440-62-2] *	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 15:11	VLO	
Zinc [7440-66-6] *	**7.1**	J	ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 15:11	VLO	

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Description: SHOP
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-04
Sampled: 01/16/08 09:00
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 09:35	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/20/08 09:35	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
1,1-Dichloroethane [75-34-3] *	**6.7**		ug/L	1	0.090	1.0	5	EPA 8260B	01/20/08 09:35	jkg	
1,1-Dichloroethene [75-35-4] *	**0.89**	J	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 09:35	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/20/08 09:35	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/20/08 09:35	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/20/08 09:35	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/20/08 09:35	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/20/08 09:35	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/20/08 09:35	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/20/08 09:35	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/20/08 09:35	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/20/08 09:35	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/20/08 09:35	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/20/08 09:35	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/20/08 09:35	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/20/08 09:35	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 09:35	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
cis-1,2-Dichloroethene [156-59-2] *	**6.4**		ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 09:35	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/20/08 09:35	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/20/08 09:35	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/20/08 09:35	jkg	
Methylene chloride [75-09-2] *	**0.87**	J	ug/L	1	0.088	2.0	1	EPA 8260B	01/20/08 09:35	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
Tetrachloroethene [127-18-4] *	**8.6**		ug/L	1	0.25	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
trans-1,2-Dichloroethene [156-60-5] *	**0.40**	J	ug/L	1	0.10	1.0	5	EPA 8260B	01/20/08 09:35	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/20/08 09:35	jkg	
Trichloroethene [79-01-6] *	**6.0**		ug/L	1	0.23	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 09:35	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/20/08 09:35	jkg	
Vinyl chloride [75-01-4] *	**1.4**		ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 09:35	jkg	

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Description:	SHOP	**Lab Sample ID:**	C717832-04	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 09:00	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/20/08 09:35	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*69-120*	*8A19004*	*EPA 8260B*	*01/20/08 09:35*	*jkg*	
Dibromofluoromethane	*51*	*1*	*50.0*	*101 %*	*61-120*	*8A19004*	*EPA 8260B*	*01/20/08 09:35*	*jkg*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*75-99*	*8A19004*	*EPA 8260B*	*01/20/08 09:35*	*jkg*	

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Description: SHOP
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-04
Sampled: 01/16/08 09:00
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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	01/23/08 12:16	JDH	
Arsenic [7440-38-2] *	**5.7**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:18	VLO	
Barium [7440-39-3] *	**1.40**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 15:18	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 15:18	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 15:18	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:18	VLO	
Cobalt [7440-48-4] *	**3.0**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:18	VLO	
Copper [7440-50-8] *	**22.7**		ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 15:18	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:18	VLO	
Nickel [7440-02-0] *	**2.9**	J	ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 15:18	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:18	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:18	VLO	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:16	JDH	
Vanadium [7440-62-2] *	**1.4**	J	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 15:18	VLO	
Zinc [7440-66-6] *	**22.3**		ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 15:18	VLO	

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

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Description: MW-5R
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-05
Sampled: 01/16/08 09:25
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 10:04	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/20/08 10:04	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/20/08 10:04	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 10:04	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/20/08 10:04	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/20/08 10:04	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/20/08 10:04	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/20/08 10:04	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/20/08 10:04	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/20/08 10:04	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/20/08 10:04	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/20/08 10:04	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/20/08 10:04	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/20/08 10:04	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/20/08 10:04	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/20/08 10:04	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/20/08 10:04	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 10:04	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 10:04	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/20/08 10:04	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/20/08 10:04	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/20/08 10:04	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/20/08 10:04	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/20/08 10:04	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/20/08 10:04	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 10:04	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/20/08 10:04	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 10:04	jkg	

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Description:	MW-5R	**Lab Sample ID:**	C717832-05	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 09:25	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/20/08 10:04	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*69-120*	*8A19004*	*EPA 8260B*	*01/20/08 10:04*	*jkg*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*61-120*	*8A19004*	*EPA 8260B*	*01/20/08 10:04*	*jkg*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*75-99*	*8A19004*	*EPA 8260B*	*01/20/08 10:04*	*jkg*	

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Description: MW-5R
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-05
Sampled: 01/16/08 09:25
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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	01/23/08 12:19	JDH	
Arsenic [7440-38-2] *	**14.4**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:25	VLO	
Barium [7440-39-3] *	**34.1**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 15:25	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 15:25	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 15:25	VLO	
Chromium [7440-47-3] *	**5.2**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:25	VLO	
Cobalt [7440-48-4] *	**62.2**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:25	VLO	
Copper [7440-50-8] *	**62.4**		ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 15:25	VLO	
Lead [7439-92-1] *	**12.6**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:25	VLO	
Nickel [7440-02-0] *	**13.6**	J	ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 15:25	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:25	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:25	VLO	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:19	JDH	
Vanadium [7440-62-2] *	**5.5**	J	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 15:25	VLO	
Zinc [7440-66-6] *	**34.4**		ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 15:25	VLO	

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

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Description: MW-4R
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-06
Sampled: 01/16/08 10:00
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 10:33	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/20/08 10:33	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
1,1-Dichloroethane [75-34-3] *	**1.1**	J	ug/L	1	0.090	1.0	5	EPA 8260B	01/20/08 10:33	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 10:33	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/20/08 10:33	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/20/08 10:33	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/20/08 10:33	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/20/08 10:33	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/20/08 10:33	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/20/08 10:33	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/20/08 10:33	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/20/08 10:33	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/20/08 10:33	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/20/08 10:33	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/20/08 10:33	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
Chlorobenzene [108-90-7] *	**0.42**	J	ug/L	1	0.16	1.0	3	EPA 8260B	01/20/08 10:33	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/20/08 10:33	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 10:33	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
cis-1,2-Dichloroethene [156-59-2] *	**0.43**	J	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 10:33	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/20/08 10:33	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/20/08 10:33	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/20/08 10:33	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/20/08 10:33	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/20/08 10:33	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/20/08 10:33	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 10:33	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/20/08 10:33	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 10:33	jkg	

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Description:	MW-4R	**Lab Sample ID:**	C717832-06	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 10:00	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/20/08 10:33	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*69-120*	*8A19004*	*EPA 8260B*	*01/20/08 10:33*	*jkg*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*61-120*	*8A19004*	*EPA 8260B*	*01/20/08 10:33*	*jkg*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*75-99*	*8A19004*	*EPA 8260B*	*01/20/08 10:33*	*jkg*	

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Description: MW-4R
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-06
Sampled: 01/16/08 10:00
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	**0.89**	J	ug/L	1	0.68	2.00	6	EPA 6020	01/23/08 12:21	JDH	
Arsenic [7440-38-2] *	**3.7**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:32	VLO	
Barium [7440-39-3] *	**4.20**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 15:32	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 15:32	VLO	
Cadmium [7440-43-9] *	**1.00**		ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 15:32	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:32	VLO	
Cobalt [7440-48-4] *	**22.0**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:32	VLO	
Copper [7440-50-8] *	**8.60**	J	ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 15:32	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:32	VLO	
Nickel [7440-02-0] *	**16.9**	J	ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 15:32	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:32	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:32	VLO	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:21	JDH	
Vanadium [7440-62-2] *	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 15:32	VLO	
Zinc [7440-66-6] *	**8.9**	J	ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 15:32	VLO	

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

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Description: MW-11
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-07
Sampled: 01/16/08 10:30
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 11:02	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/20/08 11:02	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
1,1-Dichloroethane [75-34-3] *	**11**		ug/L	1	0.090	1.0	5	EPA 8260B	01/20/08 11:02	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 11:02	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/20/08 11:02	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/20/08 11:02	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/20/08 11:02	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/20/08 11:02	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/20/08 11:02	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/20/08 11:02	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/20/08 11:02	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/20/08 11:02	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/20/08 11:02	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/20/08 11:02	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/20/08 11:02	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/20/08 11:02	jkg	
Chloroethane [75-00-3] *	**4.0**	J	ug/L	1	0.40	1.0	10	EPA 8260B	01/20/08 11:02	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 11:02	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
cis-1,2-Dichloroethene [156-59-2] *	**3.0**	J	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 11:02	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/20/08 11:02	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/20/08 11:02	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/20/08 11:02	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/20/08 11:02	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/20/08 11:02	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/20/08 11:02	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 11:02	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/20/08 11:02	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 11:02	jkg	

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Description:	MW-11	**Lab Sample ID:**	C717832-07	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 10:30	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/20/08 11:02	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*69-120*	*8A19004*	*EPA 8260B*	*01/20/08 11:02*	*jkg*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*61-120*	*8A19004*	*EPA 8260B*	*01/20/08 11:02*	*jkg*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*75-99*	*8A19004*	*EPA 8260B*	*01/20/08 11:02*	*jkg*	

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Description: MW-11
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-07
Sampled: 01/16/08 10:30
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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	01/23/08 12:24	JDH	
Arsenic [7440-38-2] *	**2.2**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:39	VLO	
Barium [7440-39-3] *	**32.6**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 15:39	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 15:39	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 15:39	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:39	VLO	
Cobalt [7440-48-4] *	**8.9**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:39	VLO	
Copper [7440-50-8] *	**2.00**	J	ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 15:39	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:39	VLO	
Nickel [7440-02-0] *	**47.7**	J	ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 15:39	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:39	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:39	VLO	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:24	JDH	
Vanadium [7440-62-2] *	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 15:39	VLO	
Zinc [7440-66-6] *	**3.4**	J	ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 15:39	VLO	

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

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Description: MW-25
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-08
Sampled: 01/16/08 11:00
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 11:31	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/20/08 11:31	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/20/08 11:31	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 11:31	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/20/08 11:31	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/20/08 11:31	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/20/08 11:31	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/20/08 11:31	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/20/08 11:31	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/20/08 11:31	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/20/08 11:31	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/20/08 11:31	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/20/08 11:31	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/20/08 11:31	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/20/08 11:31	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/20/08 11:31	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/20/08 11:31	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 11:31	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 11:31	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/20/08 11:31	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/20/08 11:31	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/20/08 11:31	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/20/08 11:31	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/20/08 11:31	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/20/08 11:31	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 11:31	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/20/08 11:31	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 11:31	jkg	

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Description:	MW-25	**Lab Sample ID:**	C717832-08	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 11:00	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/20/08 11:31	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*87 %*	*69-120*	*8A19004*	*EPA 8260B*	*01/20/08 11:31*	*jkg*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*61-120*	*8A19004*	*EPA 8260B*	*01/20/08 11:31*	*jkg*	
Toluene-d8	*42*	*1*	*50.0*	*83 %*	*75-99*	*8A19004*	*EPA 8260B*	*01/20/08 11:31*	*jkg*	

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Description: MW-25
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-08
Sampled: 01/16/08 11:00
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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	01/23/08 12:27	JDH	
Arsenic [7440-38-2] *	**7.6**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:46	VLO	
Barium [7440-39-3] *	**33.8**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 15:46	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 15:46	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 15:46	VLO	
Chromium [7440-47-3] *	**25.9**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:46	VLO	
Cobalt [7440-48-4] *	**9.5**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:46	VLO	
Copper [7440-50-8] *	**35.5**		ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 15:46	VLO	
Lead [7439-92-1] *	**16.3**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:46	VLO	
Nickel [7440-02-0] *	**22.0**	J	ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 15:46	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:46	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:46	VLO	
Thallium [7440-28-0] *	**0.070**	J	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:27	JDH	
Vanadium [7440-62-2] *	**28.7**		ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 15:46	VLO	
Zinc [7440-66-6] *	**37.7**		ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 15:46	VLO	

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Description: MW-2
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-09
Sampled: 01/16/08 11:25
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/22/08 14:54	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/22/08 14:54	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/22/08 14:54	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/22/08 14:54	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/22/08 14:54	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/22/08 14:54	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/22/08 14:54	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/22/08 14:54	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/22/08 14:54	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/22/08 14:54	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/22/08 14:54	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/22/08 14:54	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/22/08 14:54	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/22/08 14:54	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/22/08 14:54	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/22/08 14:54	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/22/08 14:54	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/22/08 14:54	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/22/08 14:54	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/22/08 14:54	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/22/08 14:54	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/22/08 14:54	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/22/08 14:54	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/22/08 14:54	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/22/08 14:54	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/22/08 14:54	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/22/08 14:54	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 14:54	jkg	

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Description:	MW-2	**Lab Sample ID:**	C717832-09	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 11:25	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/22/08 14:54	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*69-120*	*8A22007*	*EPA 8260B*	*01/22/08 14:54*	*jkg*	
Dibromofluoromethane	*39*	*1*	*50.0*	*78 %*	*61-120*	*8A22007*	*EPA 8260B*	*01/22/08 14:54*	*jkg*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*75-99*	*8A22007*	*EPA 8260B*	*01/22/08 14:54*	*jkg*	

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Description: MW-2
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-09
Sampled: 01/16/08 11:25
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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	01/23/08 12:30	JDH	
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:53	VLO	
Barium [7440-39-3] *	**45.4**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 15:53	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 15:53	VLO	
Cadmium [7440-43-9] *	**0.80**	J	ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 15:53	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:53	VLO	
Cobalt [7440-48-4] *	**930**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:53	VLO	
Copper [7440-50-8] *	**16.9**		ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 15:53	VLO	
Lead [7439-92-1] *	**13.6**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:53	VLO	
Nickel [7440-02-0] *	**861**		ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 15:53	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:53	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 15:53	VLO	
Thallium [7440-28-0] *	**0.043**	J	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:30	JDH	
Vanadium [7440-62-2] *	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 15:53	VLO	
Zinc [7440-66-6] *	**603**		ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 15:53	VLO	

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

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Description: MW-6
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-10
Sampled: 01/16/08 12:00
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/22/08 15:23	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/22/08 15:23	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
1,1-Dichloroethane [75-34-3] *	**2.0**	J	ug/L	1	0.090	1.0	5	EPA 8260B	01/22/08 15:23	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/22/08 15:23	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/22/08 15:23	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/22/08 15:23	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/22/08 15:23	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/22/08 15:23	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/22/08 15:23	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/22/08 15:23	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/22/08 15:23	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/22/08 15:23	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/22/08 15:23	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/22/08 15:23	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/22/08 15:23	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/22/08 15:23	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/22/08 15:23	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/22/08 15:23	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/22/08 15:23	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/22/08 15:23	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/22/08 15:23	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/22/08 15:23	jkg	
Methylene chloride [75-09-2] *	**0.67**	J	ug/L	1	0.088	2.0	1	EPA 8260B	01/22/08 15:23	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
Tetrachloroethene [127-18-4] *	**0.92**	J	ug/L	1	0.25	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/22/08 15:23	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/22/08 15:23	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
Trichlorofluoromethane [75-69-4] *	**7.3**		ug/L	1	0.16	1.0	1	EPA 8260B	01/22/08 15:23	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/22/08 15:23	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 15:23	jkg	

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Description:	MW-6	**Lab Sample ID:**	C717832-10	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 12:00	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/22/08 15:23	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*69-120*	*8A22007*	*EPA 8260B*	*01/22/08 15:23*	*jkg*	
Dibromofluoromethane	*41*	*1*	*50.0*	*81 %*	*61-120*	*8A22007*	*EPA 8260B*	*01/22/08 15:23*	*jkg*	
Toluene-d8	*39*	*1*	*50.0*	*79 %*	*75-99*	*8A22007*	*EPA 8260B*	*01/22/08 15:23*	*jkg*	

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Description: MW-6
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-10
Sampled: 01/16/08 12:00
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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	01/23/08 12:33	JDH	
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:18	VLO	
Barium [7440-39-3] *	**3.80**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 16:18	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 16:18	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 16:18	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:18	VLO	
Cobalt [7440-48-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:18	VLO	
Copper [7440-50-8] *	**3.00**	J	ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 16:18	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:18	VLO	
Nickel [7440-02-0] *	**2.7**	J	ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 16:18	VLO	
Selenium [7782-49-2] *	**2.8**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:18	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:18	VLO	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:33	JDH	
Vanadium [7440-62-2] *	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 16:18	VLO	
Zinc [7440-66-6] *	**4.6**	J	ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 16:18	VLO	

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

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Description: MW-12
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-11
Sampled: 01/16/08 12:35
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/22/08 15:53	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/22/08 15:53	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/22/08 15:53	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/22/08 15:53	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/22/08 15:53	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/22/08 15:53	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/22/08 15:53	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/22/08 15:53	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/22/08 15:53	jkg	
Acetone [67-64-1] *	**19**	J	ug/L	1	0.90	5.0	100	EPA 8260B	01/22/08 15:53	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/22/08 15:53	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/22/08 15:53	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/22/08 15:53	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/22/08 15:53	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/22/08 15:53	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/22/08 15:53	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/22/08 15:53	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/22/08 15:53	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/22/08 15:53	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/22/08 15:53	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/22/08 15:53	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/22/08 15:53	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/22/08 15:53	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/22/08 15:53	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/22/08 15:53	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/22/08 15:53	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/22/08 15:53	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 15:53	jkg	

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Description:	MW-12	**Lab Sample ID:**	C717832-11	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 12:35	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/22/08 15:53	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*69-120*	*8A22007*	*EPA 8260B*	*01/22/08 15:53*	*jkg*	
Dibromofluoromethane	*41*	*1*	*50.0*	*83 %*	*61-120*	*8A22007*	*EPA 8260B*	*01/22/08 15:53*	*jkg*	
Toluene-d8	*41*	*1*	*50.0*	*83 %*	*75-99*	*8A22007*	*EPA 8260B*	*01/22/08 15:53*	*jkg*	

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Description: MW-12
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-11
Sampled: 01/16/08 12:35
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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	01/23/08 12:36	JDH	
Arsenic [7440-38-2] *	**33.2**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:25	VLO	
Barium [7440-39-3] *	**138**		ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 16:25	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 16:25	VLO	
Cadmium [7440-43-9] *	**2.20**		ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 16:25	VLO	
Chromium [7440-47-3] *	**7.8**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:25	VLO	
Cobalt [7440-48-4] *	**73.4**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:25	VLO	
Copper [7440-50-8] *	**40.1**		ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 16:25	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:25	VLO	
Nickel [7440-02-0] *	**111**		ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 16:25	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:25	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:25	VLO	
Thallium [7440-28-0] *	**0.099**	J	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:36	JDH	
Vanadium [7440-62-2] *	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 16:25	VLO	
Zinc [7440-66-6] *	**30.9**		ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 16:25	VLO	

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

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Description: MW-3
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-12
Sampled: 01/16/08 13:00
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/22/08 16:22	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/22/08 16:22	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
1,1-Dichloroethane [75-34-3] *	**3.3**	J	ug/L	1	0.090	1.0	5	EPA 8260B	01/22/08 16:22	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/22/08 16:22	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/22/08 16:22	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/22/08 16:22	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
1,4-Dichlorobenzene [106-46-7] *	**1.6**		ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/22/08 16:22	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/22/08 16:22	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/22/08 16:22	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/22/08 16:22	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/22/08 16:22	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/22/08 16:22	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/22/08 16:22	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/22/08 16:22	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/22/08 16:22	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
Chlorobenzene [108-90-7] *	**7.0**		ug/L	1	0.16	1.0	3	EPA 8260B	01/22/08 16:22	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/22/08 16:22	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/22/08 16:22	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
cis-1,2-Dichloroethene [156-59-2] *	**1.1**	J	ug/L	1	0.14	1.0	5	EPA 8260B	01/22/08 16:22	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/22/08 16:22	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/22/08 16:22	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/22/08 16:22	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/22/08 16:22	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
Tetrachloroethene [127-18-4] *	**0.71**	J	ug/L	1	0.25	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/22/08 16:22	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/22/08 16:22	jkg	
Trichloroethene [79-01-6] *	**0.82**	J	ug/L	1	0.23	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/22/08 16:22	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/22/08 16:22	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 16:22	jkg	

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Description:	MW-3	**Lab Sample ID:**	C717832-12	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 13:00	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/22/08 16:22	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*69-120*	*8A22007*	*EPA 8260B*	*01/22/08 16:22*	*jkg*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*61-120*	*8A22007*	*EPA 8260B*	*01/22/08 16:22*	*jkg*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*75-99*	*8A22007*	*EPA 8260B*	*01/22/08 16:22*	*jkg*	

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Description: MW-3
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-12
Sampled: 01/16/08 13:00
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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	01/23/08 12:39	JDH	
Arsenic [7440-38-2] *	**5.4**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:32	VLO	
Barium [7440-39-3] *	**15.4**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 16:32	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 16:32	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 16:32	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:32	VLO	
Cobalt [7440-48-4] *	**6.6**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:32	VLO	
Copper [7440-50-8] *	**1.30**	J	ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 16:32	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:32	VLO	
Nickel [7440-02-0] *	**2.5**	J	ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 16:32	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:32	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:32	VLO	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:39	JDH	
Vanadium [7440-62-2] *	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 16:32	VLO	
Zinc [7440-66-6] *	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 16:32	VLO	

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

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Description: MW-9
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-13
Sampled: 01/16/08 13:40
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/22/08 16:51	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/22/08 16:51	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/22/08 16:51	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/22/08 16:51	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/22/08 16:51	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/22/08 16:51	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/22/08 16:51	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/22/08 16:51	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/22/08 16:51	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/22/08 16:51	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/22/08 16:51	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/22/08 16:51	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/22/08 16:51	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/22/08 16:51	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/22/08 16:51	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/22/08 16:51	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/22/08 16:51	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/22/08 16:51	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/22/08 16:51	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/22/08 16:51	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/22/08 16:51	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/22/08 16:51	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/22/08 16:51	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
Tetrachloroethene [127-18-4] *	**0.42**	J	ug/L	1	0.25	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/22/08 16:51	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/22/08 16:51	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/22/08 16:51	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/22/08 16:51	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 16:51	jkg	

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Description:	MW-9	**Lab Sample ID:**	C717832-13	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 13:40	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/22/08 16:51	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*69-120*	*8A22007*	*EPA 8260B*	*01/22/08 16:51*	*jkg*	
Dibromofluoromethane	*42*	*1*	*50.0*	*85 %*	*61-120*	*8A22007*	*EPA 8260B*	*01/22/08 16:51*	*jkg*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*75-99*	*8A22007*	*EPA 8260B*	*01/22/08 16:51*	*jkg*	

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Description: MW-9
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-13
Sampled: 01/16/08 13:40
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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	01/23/08 12:42	JDH	
Arsenic [7440-38-2] *	**3.1**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:39	VLO	
Barium [7440-39-3] *	**12.0**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 16:39	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 16:39	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 16:39	VLO	
Chromium [7440-47-3] *	**6.5**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:39	VLO	
Cobalt [7440-48-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:39	VLO	
Copper [7440-50-8] *	**5.20**	J	ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 16:39	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:39	VLO	
Nickel [7440-02-0] *	**5.9**	J	ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 16:39	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:39	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:39	VLO	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:42	JDH	
Vanadium [7440-62-2] *	**7.3**	J	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 16:39	VLO	
Zinc [7440-66-6] *	**11.0**		ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 16:39	VLO	

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

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Description: MW-10
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-14
Sampled: 01/16/08 14:30
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/22/08 17:20	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/22/08 17:20	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/22/08 17:20	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/22/08 17:20	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/22/08 17:20	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/22/08 17:20	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/22/08 17:20	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/22/08 17:20	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/22/08 17:20	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/22/08 17:20	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/22/08 17:20	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/22/08 17:20	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/22/08 17:20	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/22/08 17:20	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/22/08 17:20	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/22/08 17:20	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/22/08 17:20	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/22/08 17:20	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/22/08 17:20	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/22/08 17:20	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/22/08 17:20	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/22/08 17:20	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/22/08 17:20	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/22/08 17:20	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/22/08 17:20	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/22/08 17:20	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/22/08 17:20	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/22/08 17:20	jkg	

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Description:	MW-10	**Lab Sample ID:**	C717832-14	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 14:30	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/22/08 17:20	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*69-120*	*8A22007*	*EPA 8260B*	*01/22/08 17:20*	*jkg*	
Dibromofluoromethane	*43*	*1*	*50.0*	*87 %*	*61-120*	*8A22007*	*EPA 8260B*	*01/22/08 17:20*	*jkg*	
Toluene-d8	*43*	*1*	*50.0*	*85 %*	*75-99*	*8A22007*	*EPA 8260B*	*01/22/08 17:20*	*jkg*	

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Description: MW-10
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-14
Sampled: 01/16/08 14:30
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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	01/23/08 12:51	JDH	
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:46	VLO	
Barium [7440-39-3] *	**69.4**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 16:46	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 16:46	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 16:46	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:46	VLO	
Cobalt [7440-48-4] *	**3.5**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:46	VLO	
Copper [7440-50-8] *	**1.70**	J	ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 16:46	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:46	VLO	
Nickel [7440-02-0] *	**13.0**	J	ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 16:46	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:46	VLO	
Silver [7440-22-4] *	**2.0**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 16:46	VLO	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 12:51	JDH	
Vanadium [7440-62-2] *	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 16:46	VLO	
Zinc [7440-66-6] *	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 16:46	VLO	

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

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Description: MW-1 MS/MSD
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-15
Sampled: 01/16/08 15:40
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/19/08 03:24	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/19/08 03:24	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/19/08 03:24	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/19/08 03:24	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/19/08 03:24	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/19/08 03:24	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/19/08 03:24	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/19/08 03:24	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/19/08 03:24	jkg	
Acetone [67-64-1] *	**4.6**	J	ug/L	1	0.90	5.0	100	EPA 8260B	01/19/08 03:24	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/19/08 03:24	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/19/08 03:24	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/19/08 03:24	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/19/08 03:24	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/19/08 03:24	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/19/08 03:24	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/19/08 03:24	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/19/08 03:24	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/19/08 03:24	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/19/08 03:24	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/19/08 03:24	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/19/08 03:24	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/19/08 03:24	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/19/08 03:24	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/19/08 03:24	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/19/08 03:24	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/19/08 03:24	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/19/08 03:24	jkg	

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Description:	MW-1 MS/MSD	**Lab Sample ID:**	C717832-15	**Received:**	01/17/08 08:40
Matrix:	Ground Water	**Sampled:**	01/16/08 15:40	**Work Order:**	C717832
Project:	City of Albemarle Closed LF C&D	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/19/08 03:24	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*69-120*	*8A18011*	*EPA 8260B*	*01/19/08 03:24*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*61-120*	*8A18011*	*EPA 8260B*	*01/19/08 03:24*	*jkg*	
Toluene-d8	*39*	*1*	*50.0*	*78 %*	*75-99*	*8A18011*	*EPA 8260B*	*01/19/08 03:24*	*jkg*	

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Description: MW-1 MS/MSD
Matrix: Ground Water
Project: City of Albemarle Closed LF C&D

Lab Sample ID: C717832-15
Sampled: 01/16/08 15:40
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717832

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] *	**1.50**	J	ug/L	1	0.68	2.00	6	EPA 6020	01/23/08 11:50	JDH	
Arsenic [7440-38-2] *	**6.2**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 14:03	VLO	
Barium [7440-39-3] *	**177**		ug/L	1	0.20	10.0	100	EPA 6010B	01/24/08 14:03	VLO	
Beryllium [7440-41-7] *	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	01/24/08 14:03	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/24/08 14:03	VLO	
Chromium [7440-47-3] *	**14.2**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 14:03	VLO	
Cobalt [7440-48-4] *	**66.8**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 14:03	VLO	
Copper [7440-50-8] *	**55.1**		ug/L	1	0.60	10.0	10	EPA 6010B	01/24/08 14:03	VLO	
Lead [7439-92-1] *	**37.8**		ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 14:03	VLO	
Nickel [7440-02-0] *	**76.1**		ug/L	1	2.0	10.0	50	EPA 6010B	01/24/08 14:03	VLO	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 14:03	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/24/08 14:03	VLO	
Thallium [7440-28-0] *	**0.097**	J	ug/L	1	0.036	1.00	5.5	EPA 6020	01/23/08 11:50	JDH	
Vanadium [7440-62-2] *	**13.3**	J	ug/L	1	1.0	10.0	25	EPA 6010B	01/24/08 14:03	VLO	
Zinc [7440-66-6] *	**173**		ug/L	1	1.0	10.0	10	EPA 6010B	01/24/08 14:03	VLO	

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 8A18011 - EPA 5030B_MS

Blank (8A18011-BLK1) Prepared: 01/18/2008 11:48 Analyzed: 01/19/2008 00:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.18	U	1.0	ug/L							
Vinyl chloride	0.15	U	1.0	ug/L							
Bromomethane	0.21	U	1.0	ug/L							
Chloroethane	0.40	U	1.0	ug/L							
Trichlorofluoromethane	0.16	U	1.0	ug/L							
1,1-Dichloroethene	0.14	U	1.0	ug/L							
Acetone	0.90	U	5.0	ug/L							
Iodomethane	0.23	U	2.0	ug/L							
Carbon disulfide	0.12	U	5.0	ug/L							
Methylene chloride	0.088	U	2.0	ug/L							
Acrylonitrile	2.0	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.10	U	1.0	ug/L							
1,1-Dichloroethane	0.090	U	1.0	ug/L							
Vinyl acetate	0.19	U	2.0	ug/L							
2-Butanone	0.56	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.14	U	1.0	ug/L							
Bromochloromethane	0.19	U	1.0	ug/L							
Chloroform	0.16	U	1.0	ug/L							
1,1,1-Trichloroethane	0.24	U	1.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
1,2-Dichloroethane	0.36	U	1.0	ug/L							
Benzene	0.12	U	1.0	ug/L							
Trichloroethene	0.23	U	1.0	ug/L							
1,2-Dichloropropane	0.18	U	1.0	ug/L							
Dibromomethane	0.14	U	1.0	ug/L							
Bromodichloromethane	0.19	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.16	U	1.0	ug/L							
4-Methyl-2-pentanone	0.36	U	5.0	ug/L							
Toluene	0.15	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.18	U	1.0	ug/L							
1,1,2-Trichloroethane	0.24	U	1.0	ug/L							
Tetrachloroethene	0.25	U	1.0	ug/L							
2-Hexanone	0.24	U	5.0	ug/L							
Dibromochloromethane	0.18	U	1.0	ug/L							
1,2-Dibromoethane	0.19	U	1.0	ug/L							
Chlorobenzene	0.16	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.16	U	1.0	ug/L							
Ethylbenzene	0.17	U	1.0	ug/L							
Styrene	0.12	U	1.0	ug/L							
Bromoform	0.36	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.27	U	1.0	ug/L							
1,2,3-Trichloropropane	0.32	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.60	U	1.0	ug/L							
1,4-Dichlorobenzene	0.15	U	1.0	ug/L							
1,2-Dichlorobenzene	0.17	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.19	U	1.0	ug/L							
Xylenes (Total)	0.21	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*61-120*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8A18011 - EPA 5030B_MS

Blank (8A18011-BLK1) Continued Prepared: 01/18/2008 11:48 Analyzed: 01/19/2008 00:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*75-99*			
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*85*	*69-120*			

LCS (8A18011-BS1) Prepared: 01/18/2008 11:48 Analyzed: 01/19/2008 01:27

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		111	71-121			
Benzene	20		1.0	ug/L	20.0		100	77-128			
Trichloroethene	18		1.0	ug/L	20.0		89	79-120			
Toluene	16		1.0	ug/L	20.0		82	77-120			
Chlorobenzene	17		1.0	ug/L	20.0		87	78-120			

Matrix Spike (8A18011-MS1) Prepared: 01/18/2008 11:48 Analyzed: 01/19/2008 01:57

Source: C717832-15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.14 U	123	71-121			QM-07
Benzene	21		1.0	ug/L	20.0	0.12 U	104	77-128			
Trichloroethene	20		1.0	ug/L	20.0	0.23 U	100	79-120			
Toluene	19		1.0	ug/L	20.0	0.15 U	97	77-120			
Chlorobenzene	19		1.0	ug/L	20.0	0.16 U	97	78-120			

Matrix Spike Dup (8A18011-MSD1) Prepared: 01/18/2008 11:48 Analyzed: 01/19/2008 02:26

Source: C717832-15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.14 U	124	71-121	1	27	QM-07
Benzene	21		1.0	ug/L	20.0	0.12 U	103	77-128	0.5	27	
Trichloroethene	20		1.0	ug/L	20.0	0.23 U	101	79-120	0.6	27	
Toluene	20		1.0	ug/L	20.0	0.15 U	98	77-120	1	23	
Chlorobenzene	19		1.0	ug/L	20.0	0.16 U	97	78-120	0.4	25	

Batch 8A19004 - EPA 5030B_MS

Blank (8A19004-BLK1) Prepared: 01/19/2008 11:19 Analyzed: 01/20/2008 02:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.18	U	1.0	ug/L							
Vinyl chloride	0.15	U	1.0	ug/L							
Bromomethane	0.21	U	1.0	ug/L							
Chloroethane	0.40	U	1.0	ug/L							
Trichlorofluoromethane	0.16	U	1.0	ug/L							
1,1-Dichloroethene	0.14	U	1.0	ug/L							
Acetone	0.90	U	5.0	ug/L							
Iodomethane	0.23	U	2.0	ug/L							
Carbon disulfide	0.12	U	5.0	ug/L							
Methylene chloride	0.088	U	2.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8A19004 - EPA 5030B_MS

Blank (8A19004-BLK1) Continued Prepared: 01/19/2008 11:19 Analyzed: 01/20/2008 02:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acrylonitrile	2.0	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.10	U	1.0	ug/L							
1,1-Dichloroethane	0.090	U	1.0	ug/L							
Vinyl acetate	0.19	U	2.0	ug/L							
2-Butanone	0.56	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.14	U	1.0	ug/L							
Bromochloromethane	0.19	U	1.0	ug/L							
Chloroform	0.16	U	1.0	ug/L							
1,1,1-Trichloroethane	0.24	U	1.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
1,2-Dichloroethane	0.36	U	1.0	ug/L							
Benzene	0.12	U	1.0	ug/L							
Trichloroethene	0.23	U	1.0	ug/L							
1,2-Dichloropropane	0.18	U	1.0	ug/L							
Dibromomethane	0.14	U	1.0	ug/L							
Bromodichloromethane	0.19	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.16	U	1.0	ug/L							
4-Methyl-2-pentanone	0.36	U	5.0	ug/L							
Toluene	0.15	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.18	U	1.0	ug/L							
1,1,2-Trichloroethane	0.24	U	1.0	ug/L							
Tetrachloroethene	0.25	U	1.0	ug/L							
2-Hexanone	0.24	U	5.0	ug/L							
Dibromochloromethane	0.18	U	1.0	ug/L							
1,2-Dibromoethane	0.19	U	1.0	ug/L							
Chlorobenzene	0.16	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.16	U	1.0	ug/L							
Ethylbenzene	0.17	U	1.0	ug/L							
Styrene	0.12	U	1.0	ug/L							
Bromoform	0.36	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.27	U	1.0	ug/L							
1,2,3-Trichloropropane	0.32	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.60	U	1.0	ug/L							
1,4-Dichlorobenzene	0.15	U	1.0	ug/L							
1,2-Dichlorobenzene	0.17	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.19	U	1.0	ug/L							
Xylenes (Total)	0.21	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*61-120*			
Surrogate: Toluene-d8	*39*			*ug/L*	*50.0*		*77*	*75-99*			
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*85*	*69-120*			

LCS (8A19004-BS1) Prepared: 01/19/2008 11:19 Analyzed: 01/20/2008 03:45

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		92	71-121			
Benzene	20		1.0	ug/L	20.0		98	77-128			
Trichloroethene	18		1.0	ug/L	20.0		90	79-120			
Toluene	18		1.0	ug/L	20.0		88	77-120			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8A19004 - EPA 5030B_MS

LCS (8A19004-BS1) Continued Prepared: 01/19/2008 11:19 Analyzed: 01/20/2008 03:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	18		1.0	ug/L	20.0		91	78-120			

Matrix Spike (8A19004-MS1) Prepared: 01/19/2008 11:19 Analyzed: 01/20/2008 02:47

Source: C800497-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.14 U	123	71-121			QM-07
Benzene	21		1.0	ug/L	20.0	0.12 U	107	77-128			
Trichloroethene	18		1.0	ug/L	20.0	0.23 U	92	79-120			
Toluene	23		1.0	ug/L	20.0	0.15 U	113	77-120			
Chlorobenzene	19		1.0	ug/L	20.0	0.16 U	96	78-120			

Matrix Spike Dup (8A19004-MSD1) Prepared: 01/19/2008 11:19 Analyzed: 01/20/2008 03:16

Source: C800497-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	27		1.0	ug/L	20.0	0.14 U	134	71-121	9	27	QM-07
Benzene	21		1.0	ug/L	20.0	0.12 U	104	77-128	3	27	
Trichloroethene	19		1.0	ug/L	20.0	0.23 U	93	79-120	0.7	27	
Toluene	19		1.0	ug/L	20.0	0.15 U	95	77-120	17	23	
Chlorobenzene	19		1.0	ug/L	20.0	0.16 U	94	78-120	3	25	

Batch 8A22007 - EPA 5030B_MS

Blank (8A22007-BLK1) Prepared: 01/22/2008 09:22 Analyzed: 01/22/2008 10:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.18	U	1.0	ug/L							
Vinyl chloride	0.15	U	1.0	ug/L							
Bromomethane	0.21	U	1.0	ug/L							
Chloroethane	0.40	U	1.0	ug/L							
Trichlorofluoromethane	0.16	U	1.0	ug/L							
1,1-Dichloroethene	0.14	U	1.0	ug/L							
Acetone	0.90	U	5.0	ug/L							
Iodomethane	0.23	U	2.0	ug/L							
Carbon disulfide	0.12	U	5.0	ug/L							
Methylene chloride	0.088	U	2.0	ug/L							
Acrylonitrile	2.0	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.10	U	1.0	ug/L							
1,1-Dichloroethane	0.090	U	1.0	ug/L							
Vinyl acetate	0.19	U	2.0	ug/L							
2-Butanone	0.56	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.14	U	1.0	ug/L							
Bromochloromethane	0.19	U	1.0	ug/L							
Chloroform	0.16	U	1.0	ug/L							
1,1,1-Trichloroethane	0.24	U	1.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
1,2-Dichloroethane	0.36	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8A22007 - EPA 5030B_MS

Blank (8A22007-BLK1) Continued Prepared: 01/22/2008 09:22 Analyzed: 01/22/2008 10:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Benzene	0.12	U	1.0	ug/L							
Trichloroethene	0.23	U	1.0	ug/L							
1,2-Dichloropropane	0.18	U	1.0	ug/L							
Dibromomethane	0.14	U	1.0	ug/L							
Bromodichloromethane	0.19	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.16	U	1.0	ug/L							
4-Methyl-2-pentanone	0.36	U	5.0	ug/L							
Toluene	0.15	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.18	U	1.0	ug/L							
1,1,2-Trichloroethane	0.24	U	1.0	ug/L							
Tetrachloroethene	0.25	U	1.0	ug/L							
2-Hexanone	0.24	U	5.0	ug/L							
Dibromochloromethane	0.18	U	1.0	ug/L							
1,2-Dibromoethane	0.19	U	1.0	ug/L							
Chlorobenzene	0.16	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.16	U	1.0	ug/L							
Ethylbenzene	0.17	U	1.0	ug/L							
Styrene	0.12	U	1.0	ug/L							
Bromoform	0.36	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.27	U	1.0	ug/L							
1,2,3-Trichloropropane	0.32	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.60	U	1.0	ug/L							
1,4-Dichlorobenzene	0.15	U	1.0	ug/L							
1,2-Dichlorobenzene	0.17	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.19	U	1.0	ug/L							
Xylenes (Total)	0.21	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*36*			*ug/L*	*50.0*		*72*	*61-120*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*85*	*75-99*			
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*89*	*69-120*			

LCS (8A22007-BS1) Prepared: 01/22/2008 09:22 Analyzed: 01/22/2008 11:02

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	71-121			
Benzene	22		1.0	ug/L	20.0		110	77-128			
Trichloroethene	19		1.0	ug/L	20.0		97	79-120			
Toluene	20		1.0	ug/L	20.0		98	77-120			
Chlorobenzene	19		1.0	ug/L	20.0		93	78-120			

Matrix Spike (8A22007-MS1) Prepared: 01/22/2008 09:22 Analyzed: 01/22/2008 11:31

Source: C800648-05

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	0.14 U	98	71-121			
Benzene	22		1.0	ug/L	20.0	0.12 U	108	77-128			
Trichloroethene	20		1.0	ug/L	20.0	0.23 U	98	79-120			
Toluene	20		1.0	ug/L	20.0	0.15 U	101	77-120			
Chlorobenzene	19		1.0	ug/L	20.0	0.16 U	96	78-120			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8A22007 - EPA 5030B_MS

Matrix Spike Dup (8A22007-MSD1) Prepared: 01/22/2008 09:22 Analyzed: 01/22/2008 12:00

Source: C800648-05

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	0.14 U	97	71-121	2	27	
Benzene	21		1.0	ug/L	20.0	0.12 U	106	77-128	2	27	
Trichloroethene	20		1.0	ug/L	20.0	0.23 U	98	79-120	0.6	27	
Toluene	19		1.0	ug/L	20.0	0.15 U	96	77-120	6	23	
Chlorobenzene	19		1.0	ug/L	20.0	0.16 U	95	78-120	1	25	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8A22002 - EPA 3005A

Blank (8A22002-BLK1) Prepared: 01/22/2008 06:58 Analyzed: 01/24/2008 13:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.0	U	10.0	ug/L							
Barium	0.20	U	10.0	ug/L							
Beryllium	0.70	U	1.00	ug/L							
Cadmium	0.50	U	1.00	ug/L							
Chromium	2.0	U	10.0	ug/L							
Cobalt	2.0	U	10.0	ug/L							
Copper	0.60	U	10.0	ug/L							
Lead	2.0	U	10.0	ug/L							
Nickel	2.0	U	10.0	ug/L							
Selenium	2.0	U	10.0	ug/L							
Silver	2.0	U	10.0	ug/L							
Vanadium	1.0	U	10.0	ug/L							
Zinc	1.0	U	10.0	ug/L							

LCS (8A22002-BS1) Prepared: 01/22/2008 06:58 Analyzed: 01/24/2008 13:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	503		10.0	ug/L	500		101	82-117			
Barium	515		10.0	ug/L	500		103	72-125			
Beryllium	252		1.00	ug/L	250		101	75-121			
Cadmium	255		1.00	ug/L	250		102	72-120			
Chromium	491		10.0	ug/L	500		98	78-119			
Cobalt	485		10.0	ug/L	500		97	76-117			
Copper	252		10.0	ug/L	250		101	80-117			
Lead	492		10.0	ug/L	500		98	72-121			
Nickel	505		10.0	ug/L	500		101	78-116			
Selenium	533		10.0	ug/L	500		107	82-127			
Silver	49.9		10.0	ug/L	50.0		100	80-128			
Vanadium	240		10.0	ug/L	250		96	78-117			
Zinc	495		10.0	ug/L	500		99	80-120			

Matrix Spike (8A22002-MS1) Prepared: 01/22/2008 06:58 Analyzed: 01/24/2008 14:10

Source: C717832-15

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8A22002 - EPA 3005A

Matrix Spike (8A22002-MS1) Continued Prepared: 01/22/2008 06:58 Analyzed: 01/24/2008 14:10

Source: C717832-15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	498		10.0	ug/L	500	6.2	98	64-126			
Barium	674		10.0	ug/L	500	177	99	74-119			
Beryllium	248		1.00	ug/L	250	0.70 U	99	70-131			
Cadmium	246		1.00	ug/L	250	0.50 U	98	68-121			
Chromium	492		10.0	ug/L	500	14.2	96	73-120			
Cobalt	541		10.0	ug/L	500	66.8	95	76-120			
Copper	308		10.0	ug/L	250	55.1	101	75-123			
Lead	519		10.0	ug/L	500	37.8	96	68-126			
Nickel	565		10.0	ug/L	500	76.1	98	64-126			
Selenium	520		10.0	ug/L	500	2.0 U	104	65-129			
Silver	46.8		10.0	ug/L	50.0	2.0 U	94	69-121			
Vanadium	247		10.0	ug/L	250	13.3	94	71-130			
Zinc	640		10.0	ug/L	500	173	94	63-131			

Matrix Spike Dup (8A22002-MSD1) Prepared: 01/22/2008 06:58 Analyzed: 01/24/2008 14:17

Source: C717832-15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	494		10.0	ug/L	500	6.2	98	64-126	0.8	12	
Barium	686		10.0	ug/L	500	177	102	74-119	2	11	
Beryllium	246		1.00	ug/L	250	0.70 U	98	70-131	0.7	21	
Cadmium	243		1.00	ug/L	250	0.50 U	97	68-121	1	12	
Chromium	486		10.0	ug/L	500	14.2	94	73-120	1	10	
Cobalt	538		10.0	ug/L	500	66.8	94	76-120	0.6	17	
Copper	313		10.0	ug/L	250	55.1	103	75-123	2	16	
Lead	518		10.0	ug/L	500	37.8	96	68-126	0.3	19	
Nickel	563		10.0	ug/L	500	76.1	97	64-126	0.3	12	
Selenium	522		10.0	ug/L	500	2.0 U	104	65-129	0.4	10	
Silver	46.4		10.0	ug/L	50.0	2.0 U	93	69-121	0.9	12	
Vanadium	246		10.0	ug/L	250	13.3	93	71-130	0.4	16	
Zinc	625		10.0	ug/L	500	173	90	63-131	2	24	

Batch 8A22003 - EPA 3005A

Blank (8A22003-BLK1) Prepared: 01/22/2008 07:08 Analyzed: 01/23/2008 11:44

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 (8A22003-BS1) Prepared: 01/22/2008 07:08 Analyzed: 01/23/2008 11:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	23.7		2.00	ug/L	25.0		95	85-115			
Thallium	23.7		1.00	ug/L	25.0		95	85-115			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8A22003 - EPA 3005A

Matrix Spike (8A22003-MS1) Prepared: 01/22/2008 07:08 Analyzed: 01/23/2008 11:53

Source: C717832-15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	14.2		2.00	ug/L	25.0	1.50	51	85-115			QM-07
Thallium	22.1		1.00	ug/L	25.0	0.097	88	85-115			

Matrix Spike Dup (8A22003-MSD1) Prepared: 01/22/2008 07:08 Analyzed: 01/23/2008 11:56

Source: C717832-15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	15.2		2.00	ug/L	25.0	1.50	55	85-115	7	20	QM-07
Thallium	23.0		1.00	ug/L	25.0	0.097	91	85-115	4	20	

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.
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-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

ENCO
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

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Page 1 of 2

Client Name: Municipal Engineering Services (MU001)	Project Number: G07009.0
Address: P.O. Box 97	Project Name/Desc: City of Albemarle Closed LF C&D
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jonathan Pfohl / MEXO	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

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

Requested Turnaround Times: Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C717832

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									Sample Comments
	MW-8D	1/16/08	7:10	Grab	Water	4	X	X									
	MW-24		8:00		Water	4	X	X									
	MW-7		8:35		Water	4	X	X									
	[redacted]		[redacted]		Water	4	X	X									
	[redacted] SHOP		9:00		Water	4	X	X									
	MW-5R		9:35		Water	4	X	X									
	MW-4R		10:00		Water	4	X	X									
	MW-11		[redacted] 10:30		Water	4	X	X									
	MW-25		[redacted] 11:00		Water	4	X	X									
	MW-2		11:35		Water	4	X	X									
	MW-6		12:00		Water	4	X	X									
	MW-12		12:35		Water	4	X	X									

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
BSG DSW	1/2/08	1/17/08 8:40	1/17/08 8:40	Samuel Lee Hale	1/17/08 8:40
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-321 2.3°C

Condition Upon Receipt: ___ 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
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4810 Executive Park Court, Suite 211
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(904) 296-3007 Fax (904) 296-6210

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Client Name: Municipal Engineering Services (MU001)	Project Number: G07055.0
Address: P.O. Box 97	Project Name/Desc: City of Albemarle Lined LF
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 / Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jonathan Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

Requested Analyses: 8260B Appendix 1; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn; BOD 405.1; COD 410.4; Nitrate Calc 353.2; Nitrite as N 353.2,pH 150.1,Sulfate 375.4; NOX 353.2,P

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C717833

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	BOD 405.1	COD 410.4	Nitrate Calc 353.2	Nitrite as N 353.2,pH 150.1,Sulfate 375.4	NOX 353.2,P				Sample Comments
	MW-16S MS/MSD	1/15/08	9:55	Grab	Water	7	X	X									
	MW-20	1/15/08	9:35		Water	4	X	X									
	MW-21R		10:10		Water	4	X	X									
	MW-22		11:00		Water	4	X	X									
	SW-2		11:20		Water	4	X	X									
	SW-6		11:35		Water	4	X	X									
	MW-19		12:00		Water	4	X	X									
	MW-17		12:30		Water	4	X	X									
	MW-23		1:40		Water	4	X	X									
	MW-13		2:20		Water	4	X	X									
	MW-14		3:10		Water	4	X	X									
	MW-15		3:50		Water	4	X	X									

<-- Total # of Containers

Sample Kit Prepared By: BSG JWL	Date/Time: 1/2/08	Relinquished By:	1/17/08	Date/Time: 8:40	Received By: Samuel Lee Hayes	Date/Time: 1/17/08 8:40
Comments:		Relinquished By:		Date/Time:	Received By:	Date/Time:
		Relinquished By:		Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: C-323 1.7°C C-305 0.9°C			Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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

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

Tuesday, January 22, 2008

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for
Project Number: G07008.0 Blanks, Project Name/Desc: City of Albemarle LF Blanks
ENCO Workorder: C717834

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, January 17, 2008.

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 13.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	EB	Lab ID:	C717834-01	Sampled:	01/15/08 09:20	Received:	01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	01/29/08	01/19/08 11:19	1/20/2008 04:43

Client ID:	FB	Lab ID:	C717834-02	Sampled:	01/15/08 09:30	Received:	01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	01/29/08	01/19/08 11:19	1/20/2008 05:12

Client ID:	TB	Lab ID:	C717834-03	Sampled:	01/15/08 00:00	Received:	01/17/08 08:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	01/29/08	01/19/08 11:19	1/20/2008 05:41

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: EB **Lab ID:** C717834-01

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	14	J	1	0.90	5.0	100	ug/L	EPA 8260B	
Chloroform	18		1	0.16	1.0	5	ug/L	EPA 8260B	

Client ID: FB **Lab ID:** C717834-02

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	13	J	1	0.90	5.0	100	ug/L	EPA 8260B	
Chloroform	18		1	0.16	1.0	5	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: EB
Matrix: Water
Project: City of Albemarle LF Blanks

Lab Sample ID: C717834-01
Sampled: 01/15/08 09:20
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717834

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 04:43	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/20/08 04:43	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/20/08 04:43	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 04:43	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/20/08 04:43	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/20/08 04:43	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/20/08 04:43	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/20/08 04:43	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/20/08 04:43	jkg	
Acetone [67-64-1] *	**14**	J	ug/L	1	0.90	5.0	100	EPA 8260B	01/20/08 04:43	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/20/08 04:43	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/20/08 04:43	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/20/08 04:43	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/20/08 04:43	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/20/08 04:43	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/20/08 04:43	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/20/08 04:43	jkg	
Chloroform [67-66-3] *	**18**		ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 04:43	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 04:43	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/20/08 04:43	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/20/08 04:43	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/20/08 04:43	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/20/08 04:43	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/20/08 04:43	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/20/08 04:43	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/20/08 04:43	jkg	

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Description:	EB	**Lab Sample ID:**	C717834-01	**Received:**	01/17/08 08:40
Matrix:	Water	**Sampled:**	01/15/08 09:20	**Work Order:**	C717834
Project:	City of Albemarle LF Blanks	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/20/08 04:43	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 04:43	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/20/08 04:43	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*69-120*	*8A19004*	*EPA 8260B*	*01/20/08 04:43*	*jkg*	
Dibromofluoromethane	*55*	*1*	*50.0*	*109 %*	*61-120*	*8A19004*	*EPA 8260B*	*01/20/08 04:43*	*jkg*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*75-99*	*8A19004*	*EPA 8260B*	*01/20/08 04:43*	*jkg*	

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

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Description: FB
Matrix: Water
Project: City of Albemarle LF Blanks

Lab Sample ID: C717834-02
Sampled: 01/15/08 09:30
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717834

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 05:12	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/20/08 05:12	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/20/08 05:12	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 05:12	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/20/08 05:12	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/20/08 05:12	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/20/08 05:12	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/20/08 05:12	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/20/08 05:12	jkg	
Acetone [67-64-1] *	**13**	J	ug/L	1	0.90	5.0	100	EPA 8260B	01/20/08 05:12	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/20/08 05:12	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/20/08 05:12	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/20/08 05:12	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/20/08 05:12	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/20/08 05:12	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/20/08 05:12	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/20/08 05:12	jkg	
Chloroform [67-66-3] *	**18**		ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 05:12	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 05:12	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/20/08 05:12	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/20/08 05:12	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/20/08 05:12	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/20/08 05:12	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/20/08 05:12	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/20/08 05:12	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 05:12	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/20/08 05:12	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 05:12	jkg	

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Description:	FB	**Lab Sample ID:**	C717834-02	**Received:**	01/17/08 08:40
Matrix:	Water	**Sampled:**	01/15/08 09:30	**Work Order:**	C717834
Project:	City of Albemarle LF Blanks	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/20/08 05:12	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*69-120*	*8A19004*	*EPA 8260B*	*01/20/08 05:12*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*107 %*	*61-120*	*8A19004*	*EPA 8260B*	*01/20/08 05:12*	*jkg*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*75-99*	*8A19004*	*EPA 8260B*	*01/20/08 05:12*	*jkg*	

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

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Description: TB
Matrix: Water
Project: City of Albemarle LF Blanks

Lab Sample ID: C717834-03
Sampled: 01/15/08 00:00
Sampled By: Jonathan Pfohl

Received: 01/17/08 08:40
Work Order: C717834

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] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 05:41	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/20/08 05:41	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/20/08 05:41	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 05:41	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/20/08 05:41	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/20/08 05:41	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/20/08 05:41	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/20/08 05:41	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/20/08 05:41	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/20/08 05:41	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/20/08 05:41	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/20/08 05:41	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/20/08 05:41	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/20/08 05:41	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/20/08 05:41	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/20/08 05:41	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/20/08 05:41	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/20/08 05:41	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/20/08 05:41	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/20/08 05:41	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/20/08 05:41	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/20/08 05:41	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	01/20/08 05:41	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/20/08 05:41	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/20/08 05:41	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/20/08 05:41	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/20/08 05:41	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/20/08 05:41	jkg	

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Description:	TB	**Lab Sample ID:**	C717834-03	**Received:**	01/17/08 08:40
Matrix:	Water	**Sampled:**	01/15/08 00:00	**Work Order:**	C717834
Project:	City of Albemarle LF Blanks	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/20/08 05:41	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*69-120*	*8A19004*	*EPA 8260B*	*01/20/08 05:41*	*jkg*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*61-120*	*8A19004*	*EPA 8260B*	*01/20/08 05:41*	*jkg*	
Toluene-d8	*41*	*1*	*50.0*	*81 %*	*75-99*	*8A19004*	*EPA 8260B*	*01/20/08 05:41*	*jkg*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8A19004 - EPA 5030B_MS

Blank (8A19004-BLK1) Prepared: 01/19/2008 11:19 Analyzed: 01/20/2008 02:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.18	U	1.0	ug/L							
Vinyl chloride	0.15	U	1.0	ug/L							
Bromomethane	0.21	U	1.0	ug/L							
Chloroethane	0.40	U	1.0	ug/L							
Trichlorofluoromethane	0.16	U	1.0	ug/L							
1,1-Dichloroethene	0.14	U	1.0	ug/L							
Acetone	0.90	U	5.0	ug/L							
Iodomethane	0.23	U	2.0	ug/L							
Carbon disulfide	0.12	U	5.0	ug/L							
Methylene chloride	0.088	U	2.0	ug/L							
Acrylonitrile	2.0	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.10	U	1.0	ug/L							
1,1-Dichloroethane	0.090	U	1.0	ug/L							
Vinyl acetate	0.19	U	2.0	ug/L							
2-Butanone	0.56	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.14	U	1.0	ug/L							
Bromochloromethane	0.19	U	1.0	ug/L							
Chloroform	0.16	U	1.0	ug/L							
1,1,1-Trichloroethane	0.24	U	1.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
1,2-Dichloroethane	0.36	U	1.0	ug/L							
Benzene	0.12	U	1.0	ug/L							
Trichloroethene	0.23	U	1.0	ug/L							
1,2-Dichloropropane	0.18	U	1.0	ug/L							
Dibromomethane	0.14	U	1.0	ug/L							
Bromodichloromethane	0.19	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.16	U	1.0	ug/L							
4-Methyl-2-pentanone	0.36	U	5.0	ug/L							
Toluene	0.15	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.18	U	1.0	ug/L							
1,1,2-Trichloroethane	0.24	U	1.0	ug/L							
Tetrachloroethene	0.25	U	1.0	ug/L							
2-Hexanone	0.24	U	5.0	ug/L							
Dibromochloromethane	0.18	U	1.0	ug/L							
1,2-Dibromoethane	0.19	U	1.0	ug/L							
Chlorobenzene	0.16	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.16	U	1.0	ug/L							
Ethylbenzene	0.17	U	1.0	ug/L							
Styrene	0.12	U	1.0	ug/L							
Bromoform	0.36	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.27	U	1.0	ug/L							
1,2,3-Trichloropropane	0.32	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.60	U	1.0	ug/L							
1,4-Dichlorobenzene	0.15	U	1.0	ug/L							
1,2-Dichlorobenzene	0.17	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.19	U	1.0	ug/L							
Xylenes (Total)	0.21	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*61-120*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8A19004 - EPA 5030B_MS

Blank (8A19004-BLK1) Continued Prepared: 01/19/2008 11:19 Analyzed: 01/20/2008 02:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*39*			*ug/L*	*50.0*		*77*	*75-99*			
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*85*	*69-120*			

LCS (8A19004-BS1) Prepared: 01/19/2008 11:19 Analyzed: 01/20/2008 03:45

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		92	71-121			
Benzene	20		1.0	ug/L	20.0		98	77-128			
Trichloroethene	18		1.0	ug/L	20.0		90	79-120			
Toluene	18		1.0	ug/L	20.0		88	77-120			
Chlorobenzene	18		1.0	ug/L	20.0		91	78-120			

Matrix Spike (8A19004-MS1) Prepared: 01/19/2008 11:19 Analyzed: 01/20/2008 02:47

Source: C800497-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.14 U	123	71-121			QM-07
Benzene	21		1.0	ug/L	20.0	0.12 U	107	77-128			
Trichloroethene	18		1.0	ug/L	20.0	0.23 U	92	79-120			
Toluene	23		1.0	ug/L	20.0	0.15 U	113	77-120			
Chlorobenzene	19		1.0	ug/L	20.0	0.16 U	96	78-120			

Matrix Spike Dup (8A19004-MSD1) Prepared: 01/19/2008 11:19 Analyzed: 01/20/2008 03:16

Source: C800497-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	27		1.0	ug/L	20.0	0.14 U	134	71-121	9	27	QM-07
Benzene	21		1.0	ug/L	20.0	0.12 U	104	77-128	3	27	
Trichloroethene	19		1.0	ug/L	20.0	0.23 U	93	79-120	0.7	27	
Toluene	19		1.0	ug/L	20.0	0.15 U	95	77-120	17	23	
Chlorobenzene	19		1.0	ug/L	20.0	0.16 U	94	78-120	3	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.
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-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Client Name: Municipal Engineering Services (MU001)	Project Number: G07008.0 Blanks
Address: P.O. Box 97	Project Name/Desc: City of Albemarle LF Blanks
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 / Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jonathan Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses: 8260B Appendix 1

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C717834

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	Sample Comments
	EB	1/15/08	9:20	Grab	Water	3	X	
	FB	↓	9:30	↓	Water	3	X	
	TB	ENCO Final		↓	Water	3	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
[signature] JWL	1/3/08 9:25	[signature] 1/17/08	8:40	[signature]	1/17/08 8:40
Comments: Fort Lion DI H_2O utilized. Disposable Bailer for EB		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: ~~#PC-5~~ C-321 2.3°C

Condition Upon Receipt: ___ 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

www.encolabs.com

SWS Data

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS
84-01	8401-EB	630-20-6	190	1,1,1,2-Tetrac	0.16	ug/L
84-01	8401-EB	71-55-6	200	1,1,1-Trichlor	0.24	ug/L
84-01	8401-EB	79-34-5	191	1,1,2,2-Tetrac	0.27	ug/L
84-01	8401-EB	79-00-5	202	1,1,2-Trichlor	0.24	ug/L
84-01	8401-EB	75-34-3	75	1,1-Dichloroet	0.09	ug/L
84-01	8401-EB	75-35-4	77	1,1-Dichloroet	0.14	ug/L
84-01	8401-EB	96-18-4	206	1,2,3-Trichlor	0.32	ug/L
84-01	8401-EB	96-12-8	67	1,2-Dibromo-3	0.19	ug/L
84-01	8401-EB	106-93-4	68	1,2-Dibromoe	0.19	ug/L
84-01	8401-EB	95-50-1	69	1,2-Dichlorob	0.17	ug/L
84-01	8401-EB	107-06-2	76	1,2-Dichloroet	0.36	ug/L
84-01	8401-EB	78-87-5	82	1,2-Dichloropr	0.18	ug/L
84-01	8401-EB	106-46-7	71	1,4-Dichlorob	0.15	ug/L
84-01	8401-EB	78-93-3	141	2-Butanone	0.56	ug/L
84-01	8401-EB	591-78-6	124	2-Hexanone	0.24	ug/L
84-01	8401-EB	108-10-1	147	4-Methyl-2-pe	0.36	ug/L
84-01	8401-EB	67-64-1	3	Acetone	14	ug/L
84-01	8401-EB	107-13-1	8	Acrylonitrile	2	ug/L
84-01	8401-EB	71-43-2	16	Benzene	0.12	ug/L
84-01	8401-EB	74-97-5	28	Bromochloron	0.19	ug/L
84-01	8401-EB	75-27-4	29	Bromodichlor	0.19	ug/L
84-01	8401-EB	75-25-2	30	Bromoform	0.36	ug/L
84-01	8401-EB	74-83-9	136	Bromomethar	0.21	ug/L
84-01	8401-EB	75-15-0	35	Carbon disulfi	0.12	ug/L
84-01	8401-EB	56-23-5	36	Carbon tetrac	0.38	ug/L
84-01	8401-EB	108-90-7	39	Chlorobenzen	0.16	ug/L
84-01	8401-EB	75-00-3	41	Chloroethane	0.4	ug/L
84-01	8401-EB	67-66-3	44	Chloroform	18	ug/L
84-01	8401-EB	74-87-3	137	Chloromethar	0.18	ug/L
84-01	8401-EB	156-59-2	78	cis-1,2-Dichlo	0.14	ug/L
84-01	8401-EB	10061-01-5	86	cis-1,3-Dichlo	0.16	ug/L
84-01	8401-EB	124-48-1	66	Dibromochlor	0.18	ug/L
84-01	8401-EB	74-95-3	139	Dibromometh	0.14	ug/L
84-01	8401-EB	100-41-4	110	Ethylbenzene	0.17	ug/L
84-01	8401-EB	74-88-4	142	Iodomethane	0.23	ug/L
84-01	8401-EB	75-09-2	140	Methylene chl	0.088	ug/L
84-01	8401-EB	100-42-5	186	Styrene	0.12	ug/L
84-01	8401-EB	127-18-4	192	Tetrachloroeth	0.25	ug/L
84-01	8401-EB	108-88-3	196	Toluene	0.15	ug/L
84-01	8401-EB	156-60-5	79	trans-1,2-Dich	0.1	ug/L
84-01	8401-EB	10061-02-6	87	trans-1,3-Dich	0.18	ug/L
84-01	8401-EB	110-57-6	73	trans-1,4-Dich	0.6	ug/L
84-01	8401-EB	79-01-6	201	Trichloroether	0.23	ug/L
84-01	8401-EB	75-69-4	203	Trichlorofluor	0.16	ug/L
84-01	8401-EB	108-05-4	210	Vinyl acetate	0.19	ug/L
84-01	8401-EB	75-01-4	211	Vinyl chloride	0.15	ug/L
84-01	8401-FB	1330-20-7	346	Xylenes (Tota	0.21	ug/L
84-01	8401-FB	630-20-6	190	1,1,1,2-Tetrac	0.16	ug/L
84-01	8401-FB	71-55-6	200	1,1,1-Trichlor	0.24	ug/L

84-01	8401-FB	79-34-5	191	1,1,2,2-Tetrac	0.27	ug/L
84-01	8401-FB	79-00-5	202	1,1,2-Trichlor	0.24	ug/L
84-01	8401-FB	75-34-3	75	1,1-Dichloroet	0.09	ug/L
84-01	8401-FB	75-35-4	77	1,1-Dichloroet	0.14	ug/L
84-01	8401-FB	96-18-4	206	1,2,3-Trichlor	0.32	ug/L
84-01	8401-FB	96-12-8	67	1,2-Dibromo-3	0.19	ug/L
84-01	8401-FB	106-93-4	68	1,2-Dibromoe	0.19	ug/L
84-01	8401-FB	95-50-1	69	1,2-Dichlorob	0.17	ug/L
84-01	8401-FB	107-06-2	76	1,2-Dichloroet	0.36	ug/L
84-01	8401-FB	78-87-5	82	1,2-Dichloropr	0.18	ug/L
84-01	8401-FB	106-46-7	71	1,4-Dichlorob	0.15	ug/L
84-01	8401-FB	78-93-3	141	2-Butanone	0.56	ug/L
84-01	8401-FB	591-78-6	124	2-Hexanone	0.24	ug/L
84-01	8401-FB	108-10-1	147	4-Methyl-2-pe	0.36	ug/L
84-01	8401-FB	67-64-1	3	Acetone	13	ug/L
84-01	8401-FB	107-13-1	8	Acrylonitrile	2	ug/L
84-01	8401-FB	71-43-2	16	Benzene	0.12	ug/L
84-01	8401-FB	74-97-5	28	Bromochloron	0.19	ug/L
84-01	8401-FB	75-27-4	29	Bromodichlor	0.19	ug/L
84-01	8401-FB	75-25-2	30	Bromoform	0.36	ug/L
84-01	8401-FB	74-83-9	136	Bromomethar	0.21	ug/L
84-01	8401-FB	75-15-0	35	Carbon disulfi	0.12	ug/L
84-01	8401-FB	56-23-5	36	Carbon tetrac	0.38	ug/L
84-01	8401-FB	108-90-7	39	Chlorobenzen	0.16	ug/L
84-01	8401-FB	75-00-3	41	Chloroethane	0.4	ug/L
84-01	8401-FB	67-66-3	44	Chloroform	18	ug/L
84-01	8401-FB	74-87-3	137	Chloromethar	0.18	ug/L
84-01	8401-FB	156-59-2	78	cis-1,2-Dichlo	0.14	ug/L
84-01	8401-FB	10061-01-5	86	cis-1,3-Dichlo	0.16	ug/L
84-01	8401-FB	124-48-1	66	Dibromochlor	0.18	ug/L
84-01	8401-FB	74-95-3	139	Dibromometh	0.14	ug/L
84-01	8401-FB	100-41-4	110	Ethylbenzene	0.17	ug/L
84-01	8401-FB	74-88-4	142	Iodomethane	0.23	ug/L
84-01	8401-FB	75-09-2	140	Methylene chl	0.088	ug/L
84-01	8401-FB	100-42-5	186	Styrene	0.12	ug/L
84-01	8401-FB	127-18-4	192	Tetrachloroeth	0.25	ug/L
84-01	8401-FB	108-88-3	196	Toluene	0.15	ug/L
84-01	8401-FB	156-60-5	79	trans-1,2-Dich	0.1	ug/L
84-01	8401-FB	10061-02-6	87	trans-1,3-Dich	0.18	ug/L
84-01	8401-FB	110-57-6	73	trans-1,4-Dich	0.6	ug/L
84-01	8401-FB	79-01-6	201	Trichloroether	0.23	ug/L
84-01	8401-FB	75-69-4	203	Trichlorofluor	0.16	ug/L
84-01	8401-FB	108-05-4	210	Vinyl acetate	0.19	ug/L
84-01	8401-FB	75-01-4	211	Vinyl chloride	0.15	ug/L
84-01	8401-TB	1330-20-7	346	Xylenes (Tota	0.21	ug/L
84-01	8401-TB	630-20-6	190	1,1,1,2-Tetrac	0.16	ug/L
84-01	8401-TB	71-55-6	200	1,1,1-Trichlor	0.24	ug/L
84-01	8401-TB	79-34-5	191	1,1,2,2-Tetrac	0.27	ug/L
84-01	8401-TB	79-00-5	202	1,1,2-Trichlor	0.24	ug/L
84-01	8401-TB	75-34-3	75	1,1-Dichloroet	0.09	ug/L
84-01	8401-TB	75-35-4	77	1,1-Dichloroet	0.14	ug/L

84-01	8401-TB	96-18-4	206	1,2,3-Trichlor	0.32	ug/L
84-01	8401-TB	96-12-8	67	1,2-Dibromo-3	0.19	ug/L
84-01	8401-TB	106-93-4	68	1,2-Dibromoe	0.19	ug/L
84-01	8401-TB	95-50-1	69	1,2-Dichlorob	0.17	ug/L
84-01	8401-TB	107-06-2	76	1,2-Dichloroet	0.36	ug/L
84-01	8401-TB	78-87-5	82	1,2-Dichloropr	0.18	ug/L
84-01	8401-TB	106-46-7	71	1,4-Dichlorob	0.15	ug/L
84-01	8401-TB	78-93-3	141	2-Butanone	0.56	ug/L
84-01	8401-TB	591-78-6	124	2-Hexanone	0.24	ug/L
84-01	8401-TB	108-10-1	147	4-Methyl-2-pe	0.36	ug/L
84-01	8401-TB	67-64-1	3	Acetone	0.9	ug/L
84-01	8401-TB	107-13-1	8	Acrylonitrile	2	ug/L
84-01	8401-TB	71-43-2	16	Benzene	0.12	ug/L
84-01	8401-TB	74-97-5	28	Bromochloron	0.19	ug/L
84-01	8401-TB	75-27-4	29	Bromodichlor	0.19	ug/L
84-01	8401-TB	75-25-2	30	Bromoform	0.36	ug/L
84-01	8401-TB	74-83-9	136	Bromomethar	0.21	ug/L
84-01	8401-TB	75-15-0	35	Carbon disulfi	0.12	ug/L
84-01	8401-TB	56-23-5	36	Carbon tetrac	0.38	ug/L
84-01	8401-TB	108-90-7	39	Chlorobenzen	0.16	ug/L
84-01	8401-TB	75-00-3	41	Chloroethane	0.4	ug/L
84-01	8401-TB	67-66-3	44	Chloroform	0.16	ug/L
84-01	8401-TB	74-87-3	137	Chloromethar	0.18	ug/L
84-01	8401-TB	156-59-2	78	cis-1,2-Dichlo	0.14	ug/L
84-01	8401-TB	10061-01-5	86	cis-1,3-Dichlo	0.16	ug/L
84-01	8401-TB	124-48-1	66	Dibromochlor	0.18	ug/L
84-01	8401-TB	74-95-3	139	Dibromometh	0.14	ug/L
84-01	8401-TB	100-41-4	110	Ethylbenzene	0.17	ug/L
84-01	8401-TB	74-88-4	142	Iodomethane	0.23	ug/L
84-01	8401-TB	75-09-2	140	Methylene chl	0.088	ug/L
84-01	8401-TB	100-42-5	186	Styrene	0.12	ug/L
84-01	8401-TB	127-18-4	192	Tetrachloroeth	0.25	ug/L
84-01	8401-TB	108-88-3	196	Toluene	0.15	ug/L
84-01	8401-TB	156-60-5	79	trans-1,2-Dich	0.1	ug/L
84-01	8401-TB	10061-02-6	87	trans-1,3-Dich	0.18	ug/L
84-01	8401-TB	110-57-6	73	trans-1,4-Dich	0.6	ug/L
84-01	8401-TB	79-01-6	201	Trichloroether	0.23	ug/L
84-01	8401-TB	75-69-4	203	Trichlorofluor	0.16	ug/L
84-01	8401-TB	108-05-4	210	Vinyl acetate	0.19	ug/L
84-01	8401-TB	75-01-4	211	Vinyl chloride	0.15	ug/L
84-01	8401-TB	1330-20-7	346	Xylenes (Tota	0.21	ug/L

QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE
U	EPA 8260B	0.16	5	1	01/15/2008	01/19/2008
U	EPA 8260B	0.24	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.27	3	1	01/15/2008	01/19/2008
U	EPA 8260B	0.24	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.090	5	1	01/15/2008	01/19/2008
U	EPA 8260B	0.14	5	1	01/15/2008	01/19/2008
U	EPA 8260B	0.32	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.19	13	1	01/15/2008	01/19/2008
U	EPA 8260B	0.19	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.17	5	1	01/15/2008	01/19/2008
U	EPA 8260B	0.36	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.18	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.15	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.56	100	1	01/15/2008	01/19/2008
U	EPA 8260B	0.24	50	1	01/15/2008	01/19/2008
U	EPA 8260B	0.36	100	1	01/15/2008	01/19/2008
J	EPA 8260B	0.90	100	1	01/15/2008	01/19/2008
U	EPA 8260B	2.0	200	1	01/15/2008	01/19/2008
U	EPA 8260B	0.12	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.19	3	1	01/15/2008	01/19/2008
U	EPA 8260B	0.19	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.36	3	1	01/15/2008	01/19/2008
U	EPA 8260B	0.21	10	1	01/15/2008	01/19/2008
U	EPA 8260B	0.12	100	1	01/15/2008	01/19/2008
U	EPA 8260B	0.38	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.16	3	1	01/15/2008	01/19/2008
U	EPA 8260B	0.40	10	1	01/15/2008	01/19/2008
J	EPA 8260B	0.16	5	1	01/15/2008	01/19/2008
U	EPA 8260B	0.18	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.14	5	1	01/15/2008	01/19/2008
U	EPA 8260B	0.16	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.18	3	1	01/15/2008	01/19/2008
U	EPA 8260B	0.14	10	1	01/15/2008	01/19/2008
U	EPA 8260B	0.17	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.23	10	1	01/15/2008	01/19/2008
U	EPA 8260B	0.088	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.12	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.25	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.15	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.10	5	1	01/15/2008	01/19/2008
U	EPA 8260B	0.18	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.60	100	1	01/15/2008	01/19/2008
U	EPA 8260B	0.23	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.16	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.19	50	1	01/15/2008	01/19/2008
U	EPA 8260B	0.15	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.21	5	1	01/15/2008	01/19/2008
U	EPA 8260B	0.16	5	1	01/15/2008	01/19/2008
U	EPA 8260B	0.24	1	1	01/15/2008	01/19/2008

U	EPA 8260B	0.27	3	1	01/15/2008	01/19/2008
U	EPA 8260B	0.24	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.090	5	1	01/15/2008	01/19/2008
U	EPA 8260B	0.14	5	1	01/15/2008	01/19/2008
U	EPA 8260B	0.32	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.19	13	1	01/15/2008	01/19/2008
U	EPA 8260B	0.19	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.17	5	1	01/15/2008	01/19/2008
U	EPA 8260B	0.36	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.18	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.15	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.56	100	1	01/15/2008	01/19/2008
U	EPA 8260B	0.24	50	1	01/15/2008	01/19/2008
U	EPA 8260B	0.36	100	1	01/15/2008	01/19/2008
J	EPA 8260B	0.90	100	1	01/15/2008	01/19/2008
U	EPA 8260B	2.0	200	1	01/15/2008	01/19/2008
U	EPA 8260B	0.12	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.19	3	1	01/15/2008	01/19/2008
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U	EPA 8260B	0.38	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.16	3	1	01/15/2008	01/19/2008
U	EPA 8260B	0.40	10	1	01/15/2008	01/19/2008
J	EPA 8260B	0.16	5	1	01/15/2008	01/19/2008
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U	EPA 8260B	0.12	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.25	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.15	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.10	5	1	01/15/2008	01/19/2008
U	EPA 8260B	0.18	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.60	100	1	01/15/2008	01/19/2008
U	EPA 8260B	0.23	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.16	1	1	01/15/2008	01/19/2008
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U	EPA 8260B	0.21	5	1	01/15/2008	01/19/2008
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U	EPA 8260B	0.32	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.19	13	1	01/15/2008	01/19/2008
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U	EPA 8260B	0.17	5	1	01/15/2008	01/19/2008
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U	EPA 8260B	0.18	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.15	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.56	100	1	01/15/2008	01/19/2008
U	EPA 8260B	0.24	50	1	01/15/2008	01/19/2008
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U	EPA 8260B	0.19	1	1	01/15/2008	01/19/2008
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U	EPA 8260B	0.19	50	1	01/15/2008	01/19/2008
U	EPA 8260B	0.15	1	1	01/15/2008	01/19/2008
U	EPA 8260B	0.21	5	1	01/15/2008	01/19/2008

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