Groundwater Sampling Report and Statistical Analysis

Prepared for

Cherokee County Subtitle D Lined Landfill
Marble, North Carolina

February, 2007

Permit Number: 20-02
MESCO Project Number: G07007.0

Completed on June 7, 2007

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.

June 7, 2007

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 Report and Statistical Analysis
Cherokee County Subtitle D Landfill
Permit No. 20-02
MESC0 Project No. G07007.0

Dear Ms. Drummond:

The Cherokee County Subtitle D Lined Landfill located in Marble NC was sampled and analyzed as part of the semi-annual detection monitoring program on February 9, 2007. Pace Analytical (PACE) of Asheville, NC sampled and analyzed the background well MW-1 and downgradient wells MW-2, MW-3, MW-4, MW-6S, MW-6D, MW-7, MW-8, MW-9 as well as P-18. The surface waters for both the lined facility and the closed facility are all along the Valley River that separates the 2 landfills. All of the surface waters were sampled concurrently with SW-2 and SW-4 reported as part of the lined landfill and SW-1 reported as the closed landfill for this event. The leachate lagoon was also sampled by PACE during this event for all of the required parameters. The laboratory analyses consisted of the complete Appendix I list of metals and VOCs for all of the monitoring locations with the exception of P-18 which was analyzed for only VOCs.

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

Table 1. Exceedance Summary (Metals & VOCs)

Well	Benzene	1,4-dichlorobenzene
MW-6S	x	x
MW-7	x	

x=concentration greater than NCGW2L Standard

Concentrations of inorganic constituents (Metals) were found to be considerably lower compared to historical levels. This reduction is likely a product of an increase in purging during the previous two events as reported by the field technician. The decrease in turbidity likely yielded a decrease in total metal content.

Volatile organic constituents (VOCs) continue to be detected within the phase 1 downgradient cluster wells MW-6S and MW-6D. Water samples obtained from MW-6S continue to contain both purgeable aromatics and a single chlorinated purgeable halocarbon. During the routine semi-annual sampling event conducted by PACE three (3) VOCs were detected with a concentration of the aromatics benzene and 1,4-dichlorobenzene found above the Standard for the eighth consecutive event. The number and concentrations of VOCs within MW-6S remain consistent and are within the historical range. The adjacent deeper counterpart MW-6D has contained a single VOC detection each of the last 7 sampling events. Cis-1,2-dichloroethene has been found within MW-6D since February 2004 and the concentration was found below the historical identifiable range and well below the MCL. Cis-1,2-dichloroethene is likely an intermediate compound originating from the degradation of tetrachloroethylene and trichloroethylene which has historically been detected within MW-6S. The presence of the intermediate breakdown product and the absence of the parent compounds within both MW-6S and MW-6D may be an indication that the DNAPLs are undergoing natural attenuation in the immediate vicinity. The newly installed piezometers P-17, P-18,

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and P-19 located along the compliance boundary downgradient of the impacted region monitored by MW-6S/D were found to not contain any detectable VOC concentrations when they were sampled in January 2006. Results of the previous and this sampling event conducted for P-18 also yielded no detectable parameters indicating that the contaminants are isolated and have not reached the compliance boundary.

MW-7, located south of unit 1 at the toe of the slope, was found to contain the aromatic benzene for the first time and the intermediate hydrocarbon Cis-1,2-dichloroethene for the third consecutive event.

Water levels were obtained from piezometers P2-5S, P2-5D, P-4, P-17, and P-19 to supplement the water elevations from the monitoring wells to construct a more accurate potentiometric surface.

MESCO also completed the statistical analysis 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 within the monitoring wells during this 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 2) summarizes the methods used for four different %ND ranges.

Table 2. 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 metals with concentrations found below that of the background well MW-1 were eliminated and a statistical analysis was not conducted upon these wells. A total of 3 metals were tested for statistical significance. For chromium, cobalt, and zinc the parametric tolerance limit with ½ ND substitution was utilized on the data as its %ND was less than 50% and the data was normal or "log-normally" distributed.

VOCs

All historical VOC detections in the background well MW-1 was 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 detections, the number of detected VOCs was 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).

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). None of the detected metals were found to have increased in concentration according to interwell comparison analyses.

Volatile Organic Compounds (VOCs) continue to be detected within the cluster wells MW-6S and MW-6D located south east of the phase 1 landfill. The shallower well MW-6S contained 3 VOCs during this routine semiannual event. The deeper counterpart continues to contain only cis-1,2-dichloroethene in a concentration below the Standard. Based upon the historical VOC detections within the background well every well that contained 2 or more VOC detection is considered to be statistically significant according to the Poisson Prediction Interval at a 95% confidence level. Therefore the groundwater in the region monitored by MW-6S is considered to be impacted at a 95% confidence level. The VOC concentrations within MW-6S are within historical levels and an upward trend is not evident at this time. The contaminates appear to be isolated within the immediate MW-6S region based upon the complete absence of detected parameters within P-18 which is located directly downgradient at the compliance boundary.

MW-7 was found to be impacted by VOCs at a 95% confidence level according to the Poisson Prediction Interval analysis for the first time. Low levels of cis-1,2-dichloroethene have been detected during several previous events but the premier detection of benzene above the Standard increased the number of VOC detections to 2 which is above the expected number of 1.5.

Conclusion

The metals found within the monitoring locations are very likely of natural origin. The improved sampling methodology during this and the previous event likely contributed to the decrease in total metal detections.

However the aquifer monitored by MW-6S and MW-7 were found to contain statistically significant concentrations of VOCs. The impacted wells are located south of phase 1 and the leachate migration appears to be isolated from the discharge feature. There is also no potential groundwater receptors located downgradient between the landfill and the Valley River. The discharge feature separates the landfill property from the closest residences and at residential pumping rates none of the supply wells are to be considered at risk of significant contamination by groundwater originating from the Subtitle D Landfill facility. Further the residential supply wells located across the river and the river itself (SW-4) are sampled semiannually and will continue to be as part of the assessment monitoring program for the Cherokee County Closed Landfill facility. Based upon the information gathered so far there does not appear to be an immanent threat that humans will come into contact with the groundwater in this region.

The Subtitle D landfill is to continue semi-annual sampling with the the next event scheduled for August 2007. During the next event MESCO recommends the continuance of sampling for the complete Appendix I list of constituents for P-18 in addition to all of the monitoring locations contained in the detection monitoring program. MW-6S, MW-7, and MW-1 should also be sampled and analyzed for the complete Appendix II list of parameters. It is also recommended that the proper sampling methodology continue in order to obtain representative data.

MESCO completed a single day potentiometric map based upon water level readings obtained during the sampling event. The ground water flow rates and directions were also calculated and are found in the attached table. Please contact me by phone at (919) 772-5393 or by email at jpfohl@mesco.com if you have any questions or comments regarding this facility.

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

Jonathan Pfohl
Environmental Specialist

Enclosures
cc: Mr. Robert Allen
Cherokee County

Detection Scan All Detections reported by Laboratory
Cherokee County Subtitle D Lined Landfill

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	Exceedance
MW-1	Cobalt	02/15/2007	12	ug/l	10	10		
MW-4	Chromium	02/15/2007	30	ug/l	10	10	50	
MW-4	Cobalt	02/15/2007	12	ug/l	10	10		
MW-4	Zinc	02/15/2007	74	ug/l	50	10	1050	
MW-6D	cis-1,2-Dichloroethene	02/15/2007	21	ug/l	5	5	70	
MW-6D	Cobalt	02/15/2007	18	ug/l	10	10		
MW-6S	**1,4-Dichlorobenzene**	**02/15/2007**	**16**	**ug/l**	5	1	**1.4**	**14.6**
MW-6S	**Benzene**	**02/15/2007**	**5.3**	**ug/l**	5	1	**1**	**4.3**
MW-6S	cis-1,2-Dichloroethene	02/15/2007	32	ug/l	5	5	70	
MW-6S	Cobalt	02/15/2007	33	ug/l	10	10		
MW-6S	Zinc	02/15/2007	66	ug/l	50	10	1050	
MW-7	Cobalt	02/15/2007	38	ug/l	10	10		
MW-7	**Benzene**	**02/15/2007**	**5.7**	**ug/l**	5	1	**1**	**4.7**
MW-7	cis-1,2-Dichloroethene	02/15/2007	20	ug/l	5	5	70	
LEACHATE	Zinc	02/12/2007	11	ug/l	10	10	1050	
LEACHATE	Barium	02/12/2007	140	ug/l	5	100	2000	
LEACHATE	Ethylbenzene	02/12/2007	5.8	ug/l	5	1	550	

[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

Hydrologic Properties at Monitoring Well Locations
Cherokee County Subtitle D Lined 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	3.04E-06	5.00	0.10	6	S20E	101.69	1701.91
MW-2	1.97E-04	16.00	0.08	96	N69E	56.99	1634.35
MW-3	1.18E-04	10.00	0.13	156	S88E	36.67	1652.74
MW-4	1.71E-04	16.00	0.06	64	S49E	17	1646.34
MW-5	1.66E-03	15.00	0.01	166	S70E	8.12	1630.02
MW-6S	4.15E-05	15.00	0.15	42	S21E	15.45	1645.72
MW-7	5.80E-05	16.00	0.06	22	S15E	20.17	1629.45
MW-8	1.27E-04	14.00	0.01	10	S23E	11.72	1630.3
MW-9	2.84E-04	14.00	0.09	186	S21E	23.86	1641.02

NOTE: Effective Porosity value for MW-5 & MW-6S taken from table in Applied Hydrogeology of Fractured Rocks, Singhal & Gupta (1999)
All other values for effective porosity are derived from the Design Hydrogeologic Study for the Cherokee County Subtitle D Landfill.
Hydraulic Conductivities were obtained from slug tests performed by Municipal Engineering on each monitoring well and data from the Design Hydrogeologic Study.
Hydrologic Gradient taken from the February 15, 2007 sampling event.

Flow rate (Q) is defined by the equation:

where

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

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

Groundwater Elevations at Monitoring Locations
Cherokee County Subtitle D Lined Landfill
February 15, 2007

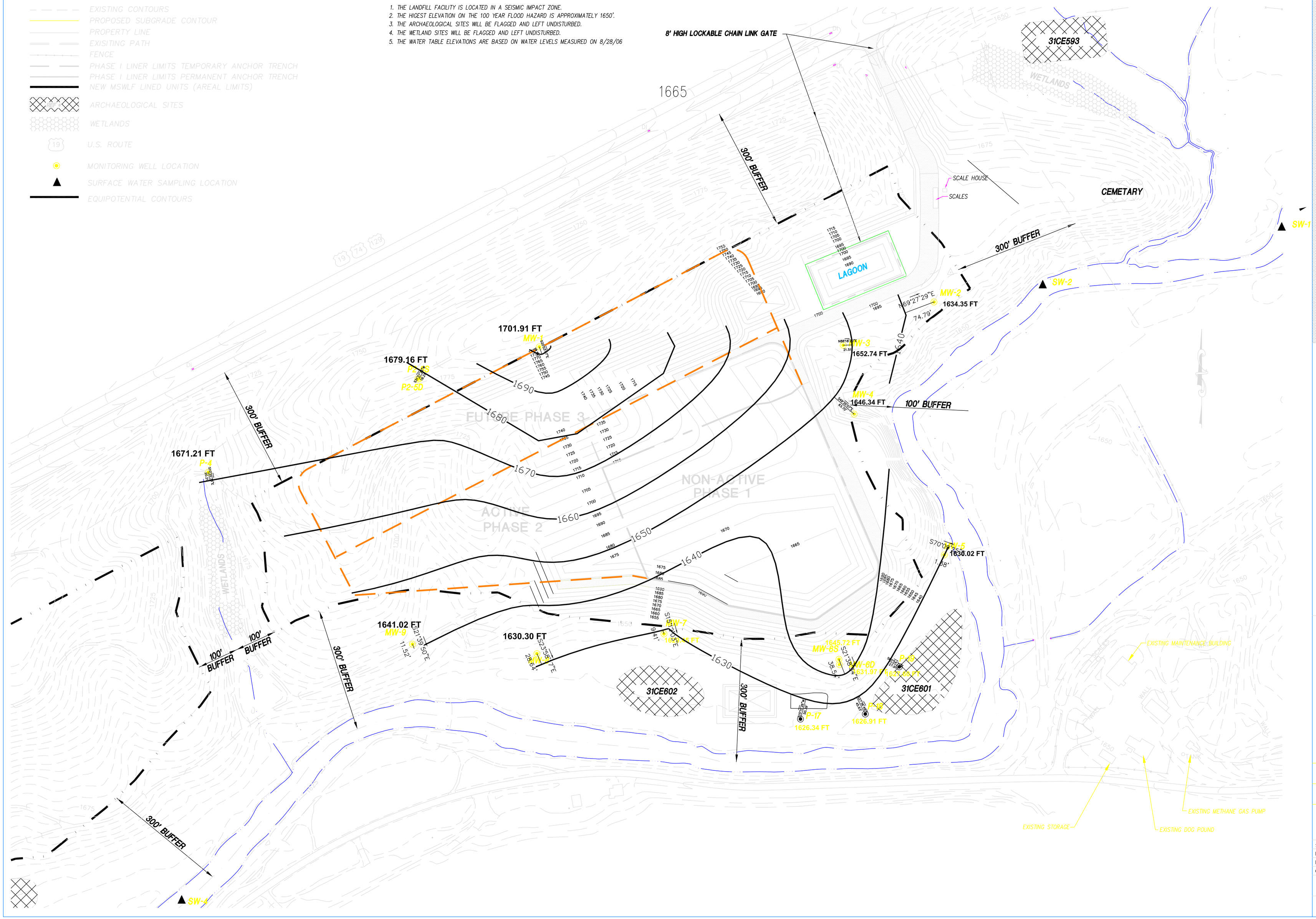
WELL #	TOP OF PIPE ELEVATION (FT)	DEPTH TO WATER (FT)	WATER ELEVATION (FT)
MW-1	1803.6	101.69	1701.91
MW-2	1691.34	56.99	1634.35
MW-3	1689.41	36.67	1652.74
MW-4	1663.34	17	1646.34
MW-5	1638.14	8.12	1630.02
MW-6S	1661.17	15.45	1645.72
MW-6D	1658.12	26.15	1631.97
MW-7	1649.62	20.17	1629.45
MW-8	1642.02	11.72	1630.3
MW-9	1664.88	23.86	1641.02
P2-5S	1780.18	101.02	1679.16
P-4	1679.2	7.99	1671.21
P-17	1638.09	11.75	1626.34
P-18	1636.98	10.07	1626.91
P-19	1636.29	8.69	1627.6

LEGEND

- EXISTING CONTOURS
- PROPOSED SUBGRADE CONTOUR
- PROPERTY LINE
- EXISITING PATH
- FENCE
- PHASE I LINER LIMITS TEMPORARY ANCHOR TRENCH
- PHASE I LINER LIMITS PERMANENT ANCHOR TRENCH
- NEW MSWLF LINED UNITS (AREAL LIMITS)
- ARCHAEOLOGICAL SITES
- WETLANDS
- U.S. ROUTE
- MONITORING WELL LOCATION
- SURFACE WATER SAMPLING LOCATION
- EQUIPOTENTIAL CONTOURS

NOTES

1. THE LANDFILL FACILITY IS LOCATED IN A SEISMIC IMPACT ZONE.
2. THE HIGEST ELEVATION ON THE 100 YEAR FLOOD HAZARD IS APPROXIMATELY 1650'.
3. THE ARCHAEOLOGICAL SITES WILL BE FLAGGED AND LEFT UNDISTURBED.
4. THE WETLAND SITES WILL BE FLAGGED AND LEFT UNDISTURBED.
5. THE WATER TABLE ELEVATIONS ARE BASED ON WATER LEVELS MEASURED ON 8/28/06



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Municipal Services
P.O. BOX 57 BARKER, N.C. 27503
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SAMPLING AND ANALYSIS PLAN
SUBTITLE D LINED LANDFILL
CHEROKEE COUNTY
NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION
2/27/98	LCH	1	CORRECTED WELL LOCATIONS ,ADDED M. WELL CHART

SINGLE DAY POTENTIOMETRIC MAP
WITH FLOW DIRECTIONS 2/15/07

SCALE: 1"=100'
DATE: 6/29/2001
DRWN. BY: L. HAMPTON
CHKD. BY: K. YOSHIDA
PROJECT NUMBER
G01009.0
DRAWING NO.
SHEET NO.

Statistical Analysis Results Summary

Inter-Well Analysis Summary
Cherokee County Subtitle D Lined Landfill

Background Well: MW-1

Chromium, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
13.64	normal	Parametric Tolerance interval	1/2ND	94.696	ug/l

Well	Result	Significance
MW-4	30	no

Cobalt, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
0.00	log normal	Parametric Tolerance interval	1/2ND	5.494	log [ug/l]

Well	Result	Significance
MW-6S	3.5	no
MW-6D	2.89	no
MW-7	3.64	no

Zinc, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
9.09	normal	Parametric Tolerance interval	1/2ND	252.689	ug/l

Well	Result	Significance
MW-4	74	no
MW-6S	66	no

NOTE: Bold-faced monitoring points indicate detected levels exceed North Carolina Groundwater Standard.

Summary of Pooled Appendix I VOCs in Background Well (MW-1)
Cherokee County Subtitle D Lined Landfill

Constituent	Samples	NDs	% NDs
1,1,1,2-Tetrachloroethane	22	22	100.00
1,1,1-Trichloroethane	22	22	100.00
1,1,2,2-Tetrachloroethane	22	22	100.00
1,1,2-Trichloroethane	22	22	100.00
1,1-Dichloroethane	22	22	100.00
1,1-Dichloroethene	22	22	100.00
1,2,3-Trichloropropane	22	22	100.00
1,2-Dibromo-3-chloropropane	22	22	100.00
1,2-Dibromoethane	22	22	100.00
1,2-Dichlorobenzene	22	22	100.00
1,2-Dichloroethane	22	22	100.00
1,2-Dichloropropane	22	22	100.00
1,4-Dichlorobenzene	22	22	100.00
2-Butanone	22	22	100.00
2-Hexanone	22	22	100.00
4-Methyl-2-Pentanone	22	22	100.00
Acetone	22	22	100.00
Acrylonitrile	22	22	100.00
Benzene	22	22	100.00
Bromochloromethane	22	22	100.00
Bromodichloromethane	22	22	100.00
Bromoform	22	22	100.00
Bromomethane	22	21	95.45
Carbon disulfide	22	19	86.36
Carbon tetrachloride	22	22	100.00
Chlorobenzene	22	22	100.00
Chloroethane	22	22	100.00
Chloroform	22	22	100.00
Chloromethane	22	22	100.00
cis-1,2-Dichloroethene	22	22	100.00
cis-1,3-Dichloropropene	22	22	100.00
Chlorodibromomethane	22	22	100.00
Dibromomethane	22	22	100.00
Ethylbenzene	22	22	100.00
Iodomethane	22	22	100.00
Dichloromethane	22	22	100.00
Styrene	22	22	100.00
Tetrachloroethylene	22	22	100.00
Toluene	22	22	100.00
trans-1,2-Dichloroethene	22	22	100.00
trans-1,3-Dichloropropene	22	22	100.00
trans-1,4-Dichloro-2-butene	22	22	100.00
Trichloroethylene	22	22	100.00
Trichlorofluoromethane	22	22	100.00
Vinyl acetate	22	22	100.00
Vinyl chloride	22	22	100.00
Xylene	22	22	100.00
Total	**1034**	**1030**	**99.61**

Poisson Prediction Interval Based upon Pooled Background Appendix I VOCs
Cherokee County Subtitle D Lined Landfill

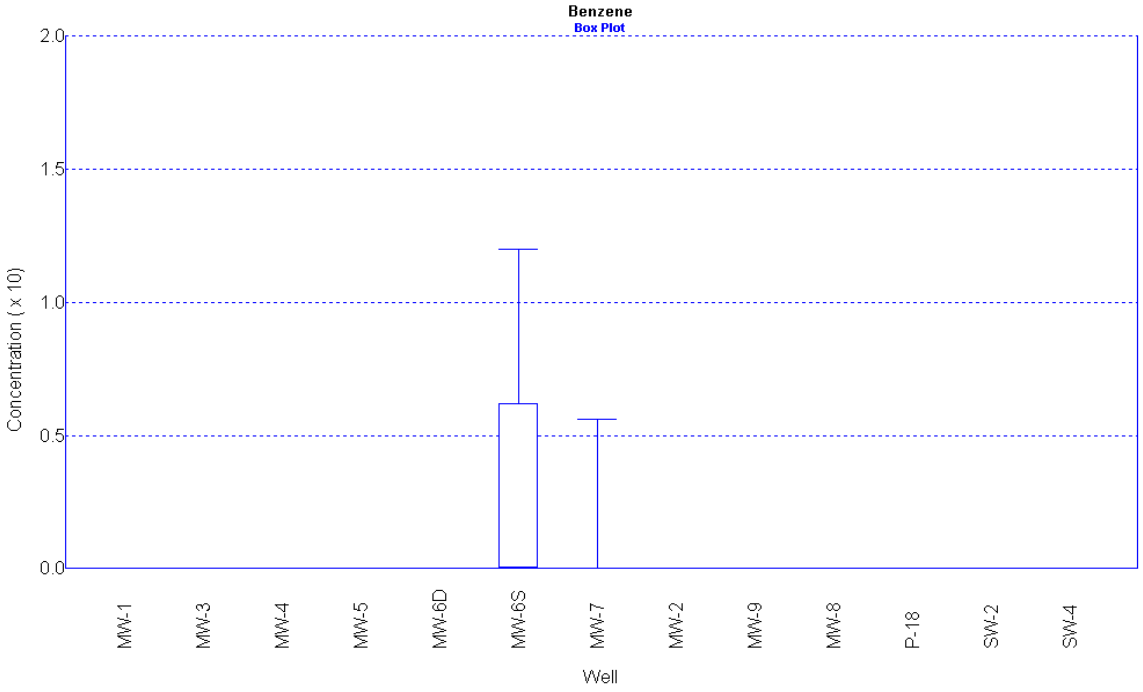
All detected VOCs (Background Well: MW-1)

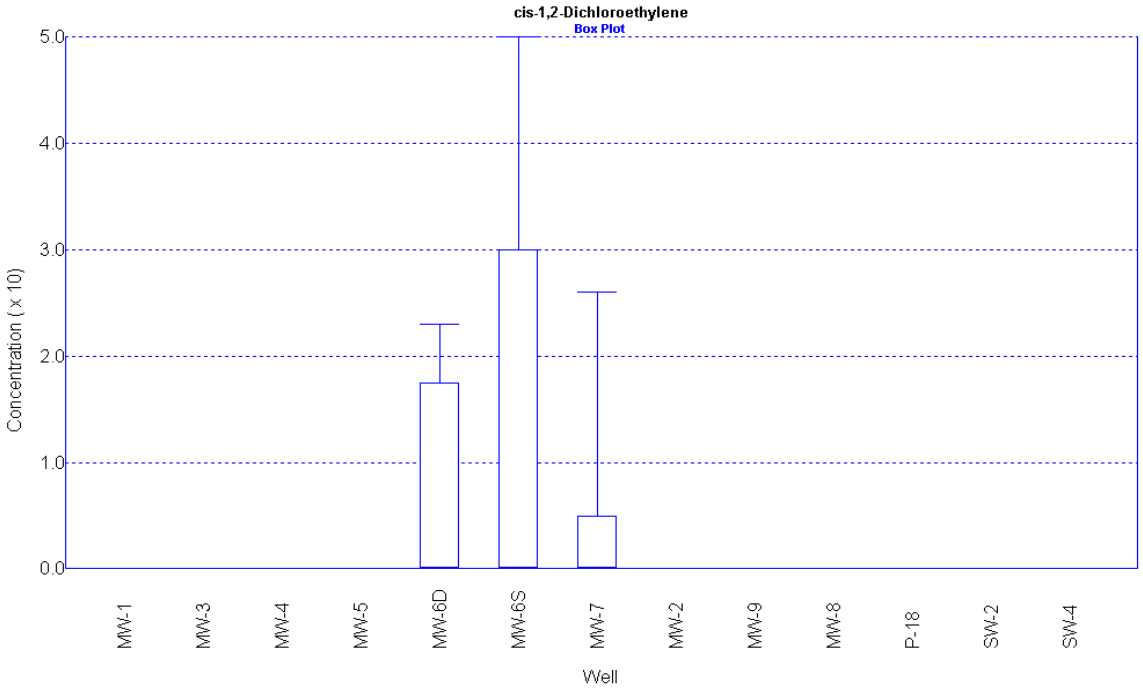
Constituent	MW-6S	MW-6D	MW-7
Benzene	**x**		**x**
1,4-Dichlorobenzene	**x**		
cis-1,2-Dichloroethene	x	x	x
Detection(s) per Scan	3.00	1.00	2.00

Total number of sampling events [n] = 22
Total number of detections in background wells [y] = 4
Number of comparisons (downgradient wells) [k] = 10
One-sided value of Student's t-statistic (95% confidence) [t] = 2.77
Expected number of detections in a single future sample [y*] = **1.5776**

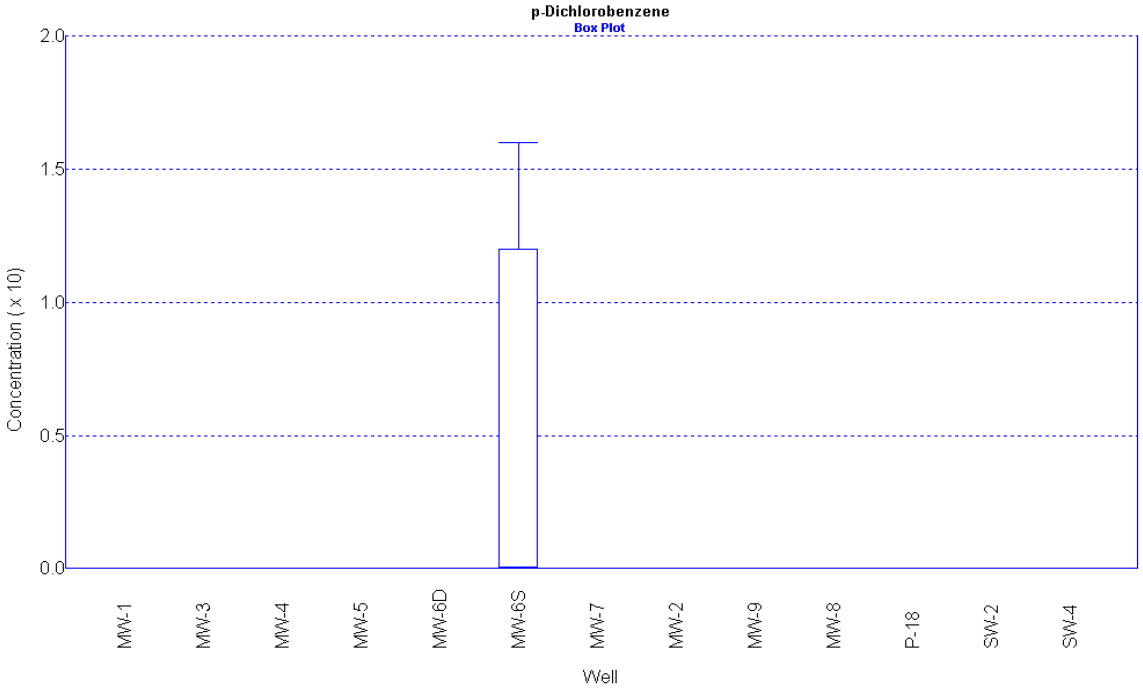
Statistically Significant VOC detections within MW-6S & MW-7 at a 95% confidence level

Box Plots for Select Constituents (VOCs)
Cherokee County Subtitle D Lined Landfill

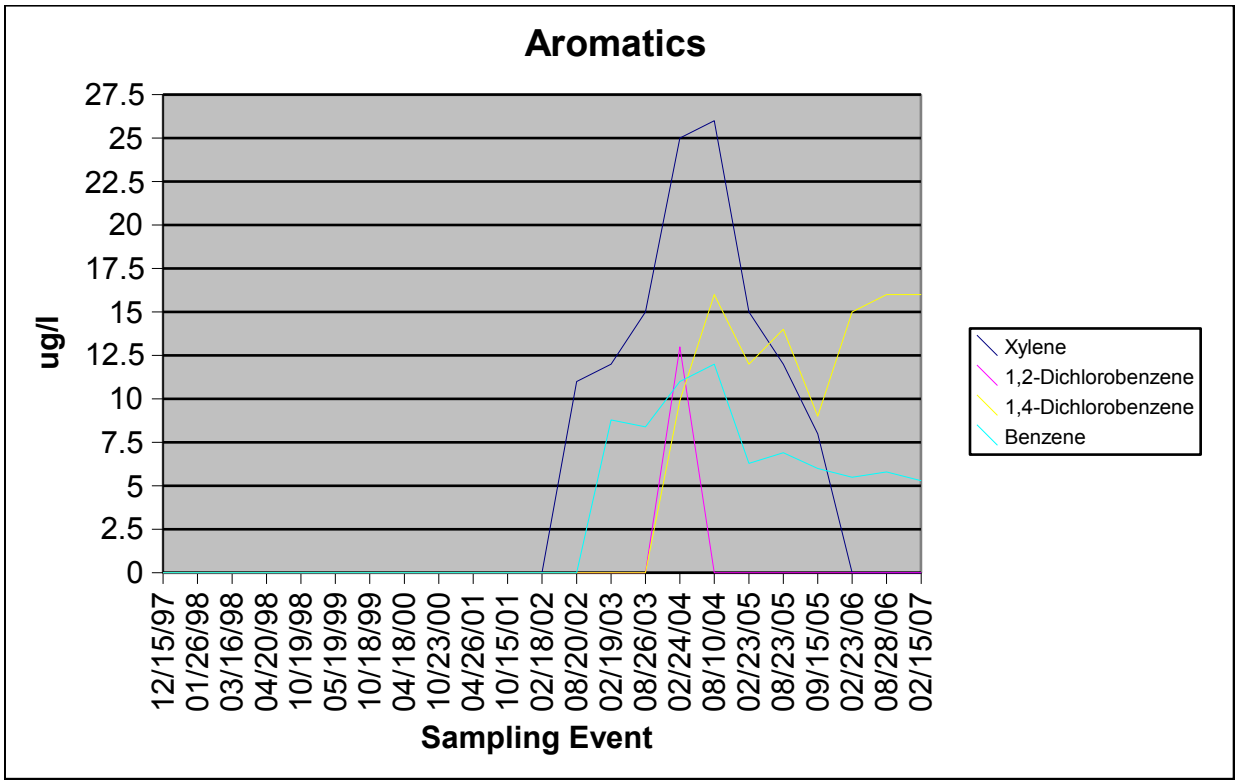




Box Plots for Select Constituents (VOCs)
Cherokee County Subtitle D Lined Landfill



Time Series Plots for All Historical Detected Aromatic VOCs (MW-6S)
Cherokee County Subtitle D Landfill



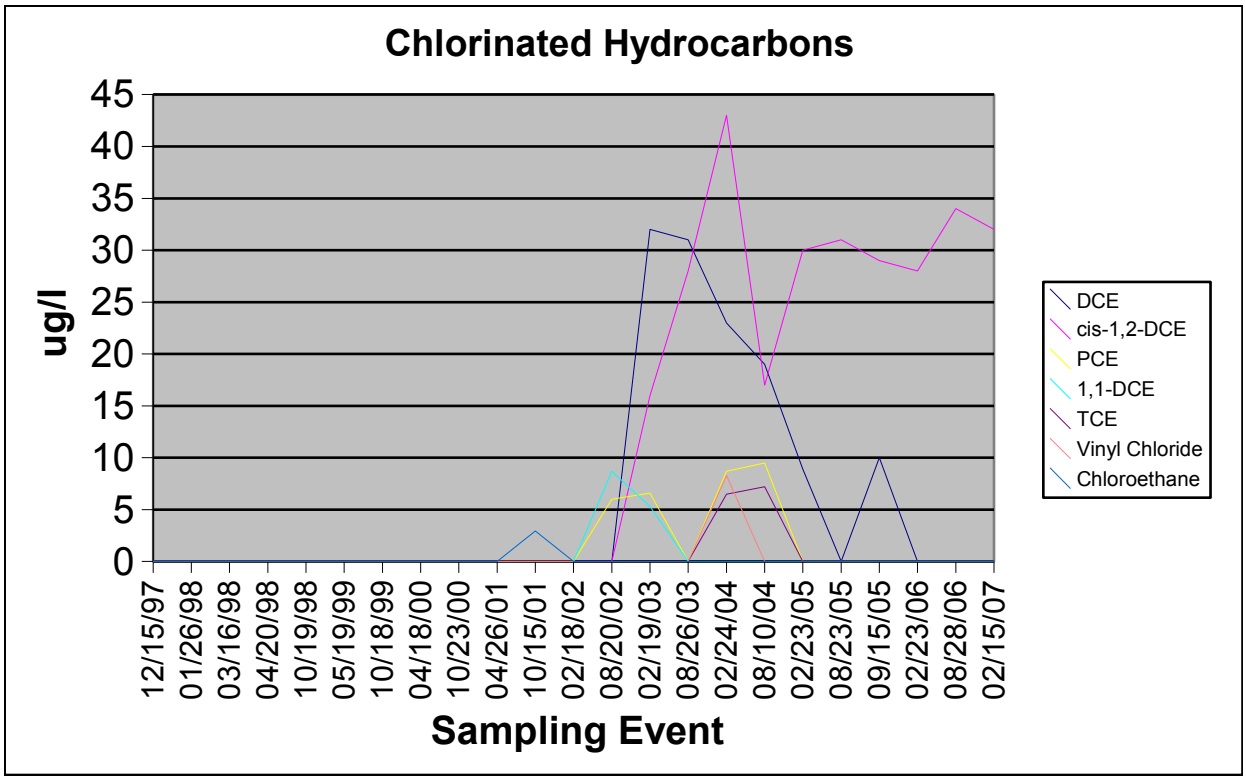
Aromatics

Sample Date	Xylene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Benzene
12/15/1997	ND	ND	ND	ND
1/26/1998	ND	ND	ND	ND
3/16/1998	ND	ND	ND	ND
4/20/1998	ND	ND	ND	ND
10/19/1998	ND	ND	ND	ND
5/19/1999	ND	ND	ND	ND
10/18/1999	ND	ND	ND	ND
4/18/2000	ND	ND	ND	ND
10/23/2000	ND	ND	ND	ND
4/26/2001	ND	ND	ND	ND
10/15/2001	ND	ND	ND	ND
2/18/2002	ND	ND	ND	ND
8/20/2002	11	ND	ND	ND
2/19/2003	12	ND	ND	**8.8**
8/26/2003	15	ND	ND	**8.4**
2/24/2004	25	13	**9.9**	**11**
8/10/2004	26	ND	**16**	**12**
2/23/2005	15	ND	**12**	**6.3**
8/23/2005	12	ND	**14**	**6.9**
09/15/2005*	8	ND	**9**	**6**
2/23/2006	ND	ND	**15**	**5.5**
8/28/2006	ND	ND	**16**	**5.8**
2/15/2007	ND	ND	**16**	**5.3**

Bold = Above NCGW2L

*=confirmation resample event conducted by MESCO

Time Series Plots for All Historical Detected Chlorinated VOCs (MW-6S)
Cherokee County Subtitle D Landfill



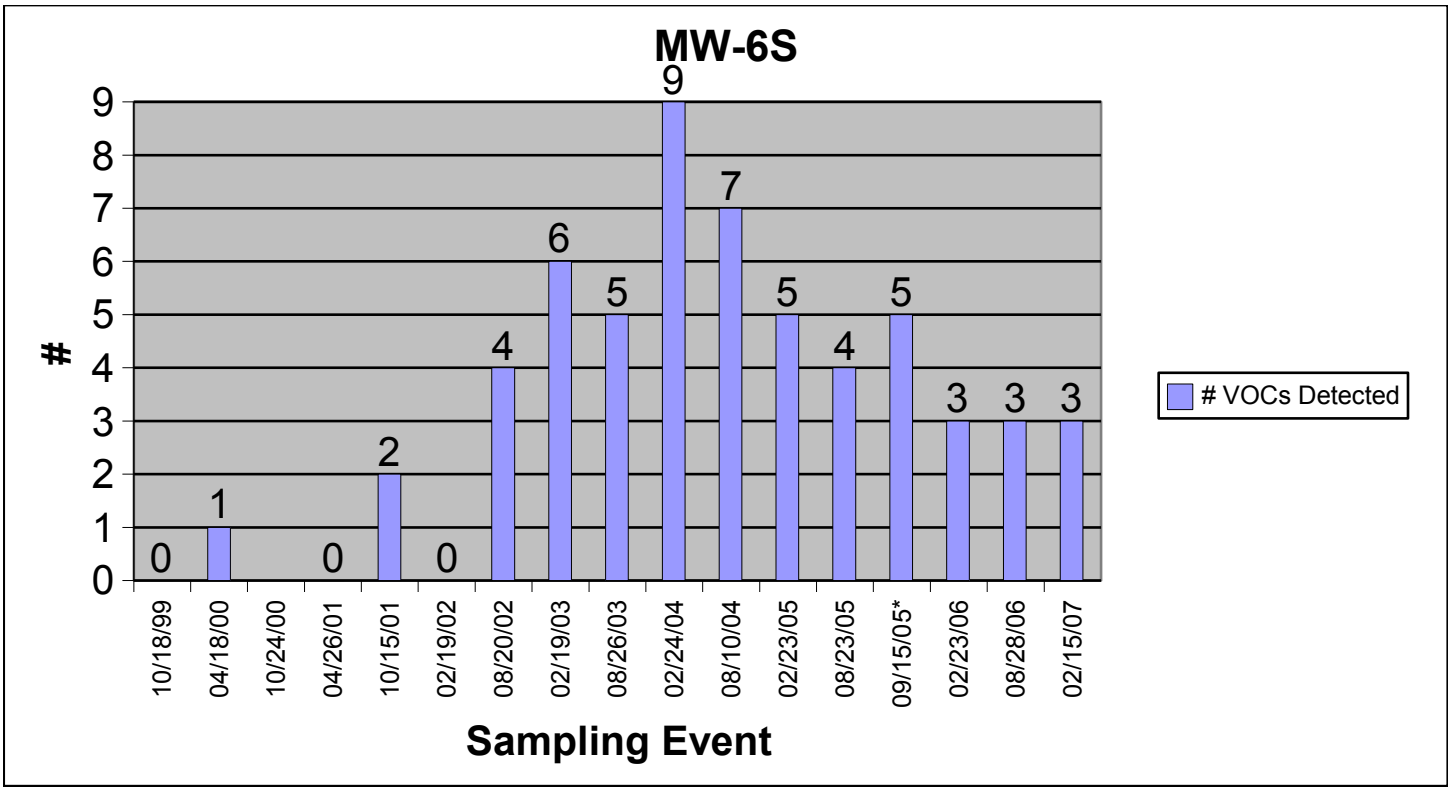
Chlorinated Hydrocarbons

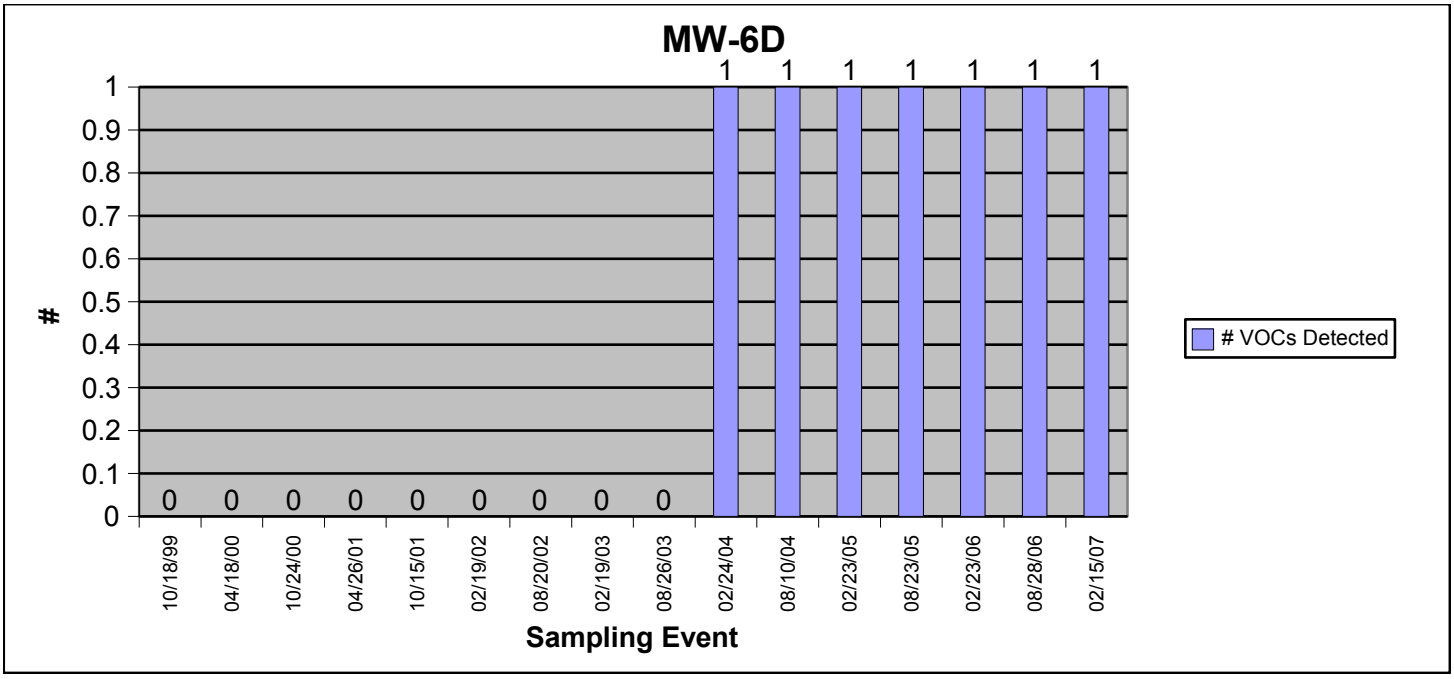
Sample Date	DCE	cis-1,2-DCE	PCE	1,1-DCE	TCE
12/15/1997	ND	ND	ND	ND	ND
1/26/1998	ND	ND	ND	ND	ND
3/16/1998	ND	ND	ND	ND	ND
4/20/1998	ND	ND	ND	ND	ND
10/19/1998	ND	ND	ND	ND	ND
5/19/1999	ND	ND	ND	ND	ND
10/18/1999	ND	ND	ND	ND	ND
4/18/2000	ND	ND	ND	ND	ND
10/23/2000	ND	ND	ND	ND	ND
4/26/2001	ND	ND	ND	ND	ND
10/15/2001	ND	ND	ND	ND	ND
2/18/2002	ND	ND	ND	ND	ND
8/20/2002	ND	ND	**6**	8.7	ND
2/19/2003	**32**	16	**6.6**	5.3	ND
8/26/2003	**31**	28	ND	ND	ND
2/24/2004	**23**	43	**8.7**	ND	**6.5**
8/10/2004	**19**	17	**9.5**	ND	**7.2**
2/23/2005	**8.9**	30	ND	ND	ND
8/23/2005	0	31	ND	ND	ND
09/15/2005*	**10**	29	ND	ND	ND
2/23/2006	ND	28	ND	ND	ND
8/28/2006	ND	34	ND	ND	ND
2/15/2007	ND	32	ND	ND	ND

Bold = Above NCGW2L

*=confirmation resample event conducted by MESCO

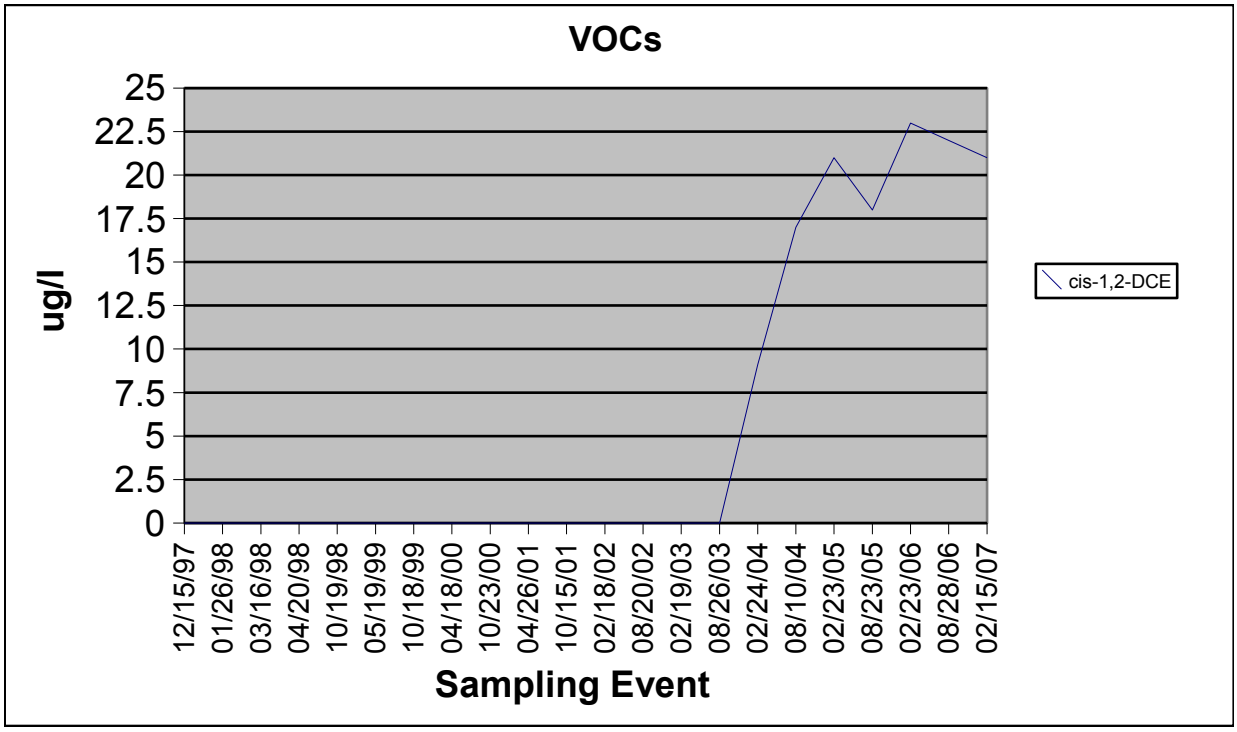
Time Series Plots for All Historical Detected VOCs (MW-6S & MW-6D)
Cherokee County Subtitle D Landfill





*=confirmation resample event conducted by MESCO

Time Series Plots for All Historical Detected VOCs (MW-6D)
Cherokee County Subtitle D Landfill

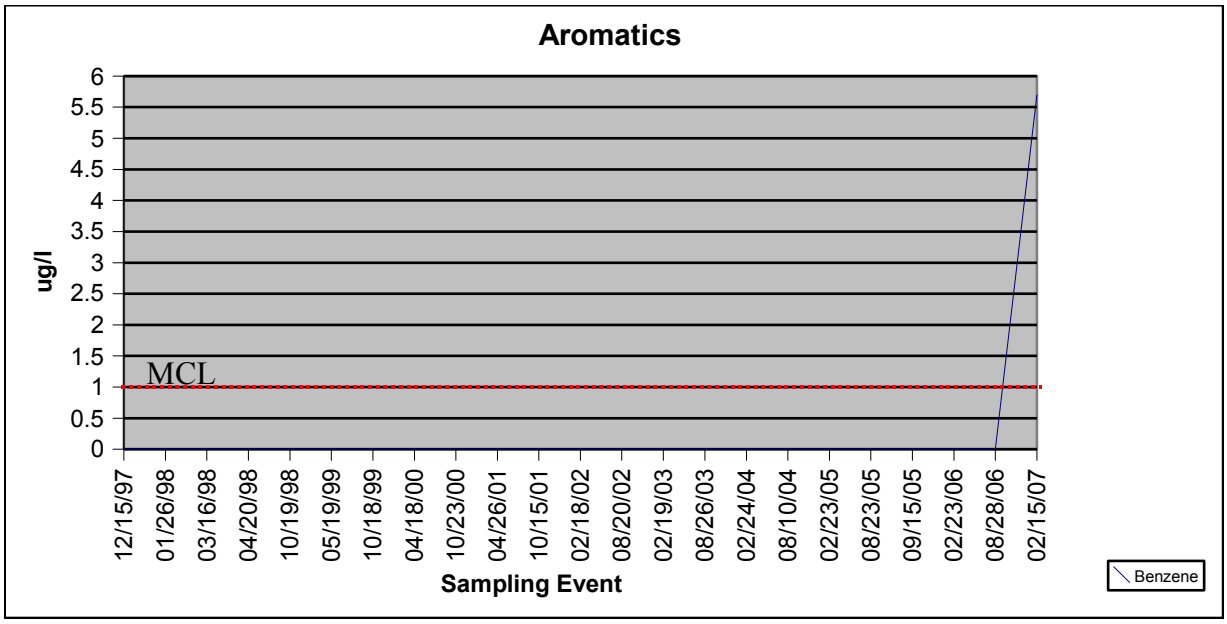


All Detected VOCs

Sample Date	cis-1,2-DCE
12/15/1997	ND
1/26/1998	ND
3/16/1998	ND
4/20/1998	ND
10/19/1998	ND
5/19/1999	ND
10/18/1999	ND
4/18/2000	ND
10/23/2000	ND
4/26/2001	ND
10/15/2001	ND
2/18/2002	ND
8/20/2002	ND
2/19/2003	ND
8/26/2003	ND
2/24/2004	9.1
8/10/2004	17
2/23/2005	21
8/23/2005	18
2/23/2006	23
8/28/2006	22
2/15/2007	21

Bold = Above NCGW2L

Time Series Plots for All Historical Detected Aromatic VOCs (MW-7)
Cherokee County Subtitle D Landfill

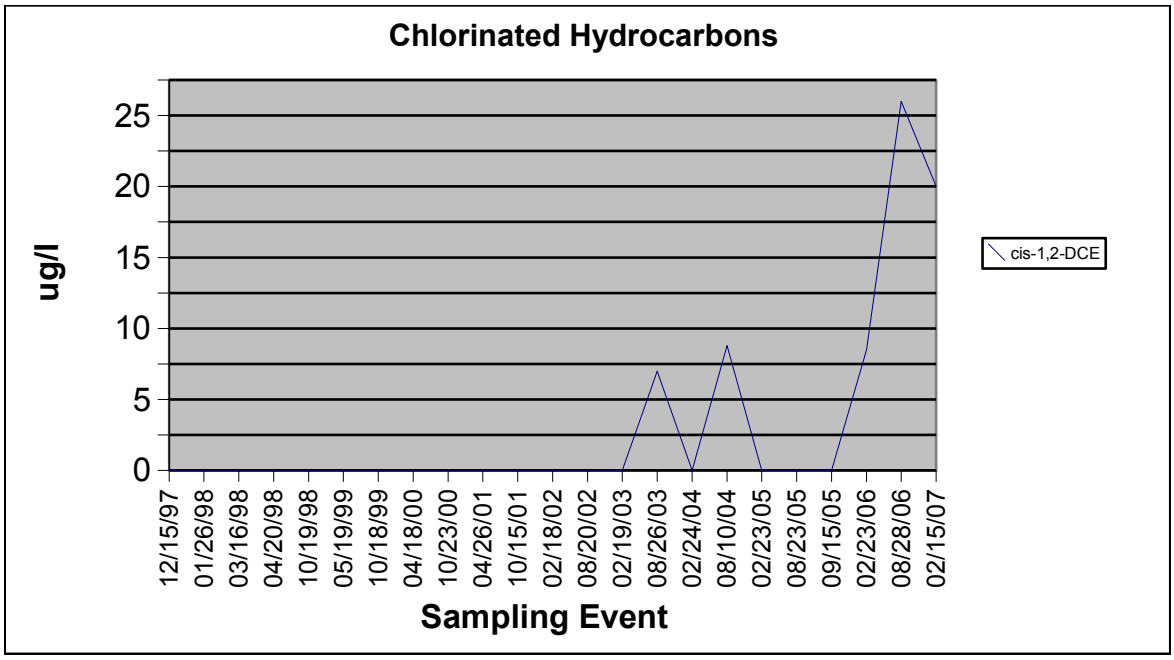


Aromatics

Sample Date	Benzene
12/15/1997	ND
1/26/1998	ND
3/16/1998	ND
4/20/1998	ND
10/19/1998	ND
5/19/1999	ND
10/18/1999	ND
4/18/2000	ND
10/23/2000	ND
4/26/2001	ND
10/15/2001	ND
2/18/2002	ND
8/20/2002	ND
2/19/2003	ND
8/26/2003	ND
2/24/2004	ND
8/10/2004	ND
2/23/2005	ND
8/23/2005	ND
2/23/2006	ND
8/28/2006	ND
2/15/2007	**5.7**

Bold = Above NCGW2L

Time Series Plots for All Historical Detected Chlorinated VOCs (MW-7)
Cherokee County Subtitle D Landfill



Chlorinated Hydrocarbons

Sample Date	cis-1,2-DCE
12/15/97	ND
01/26/98	ND
03/16/98	ND
04/20/98	ND
10/19/98	ND
05/19/99	ND
10/18/99	ND
04/18/00	ND
10/23/00	ND
04/26/01	ND
10/15/01	ND
02/18/02	ND
08/20/02	ND
02/19/03	ND
08/26/03	7
02/24/04	ND
08/10/04	8.8
02/23/05	ND
08/23/05	ND
09/15/05	ND
02/23/06	8.5
08/28/06	26
02/15/07	20

Bold = Above NCGW2L

Basic Statistics

Basic Statistics

Parameter: Chromium

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

	Total Observations
210	
Total Non-Detects	87
Pooled Mean	37.0495
Pooled Std Dev	85.9882
Background Mean	39.6818
Background Std Dev	31.2686

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	22	3	13.6364	873

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	39.6818	31.2686	0	3176	144.364

Compliance Wells

There are 11 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-3	22	2	9.09091	2370.7
MW-4	23	1	4.34783	1949
MW-5	21	12	57.1429	200
MW-6D	22	16	72.7273	92.4
MW-6S	22	17	77.2727	57.6
MW-2	22	4	18.1818	544.2
MW-7	21	10	47.619	173.8
MW-9	9	3	33.3333	174
MW-8	9	2	22.2222	1300.2
SW-2	11	11	100	27.5
SW-4	6	6	100	18

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-3	107.759	163.052	68.0773	23.1741	3339	151.773
MW-4	84.7391	83.5895	45.0573	22.9208	3688	160.348
MW-5	9.52381	21.179	-30.158	23.4484	1668	79.4286
MW-6D	4.2	4.24107	-35.4818	23.1741	1431	65.0455
MW-6S	2.61818	1.46145	-37.0636	23.1741	1258	57.1818
MW-2	24.7364	39.2215	-14.9455	23.1741	2727	123.955
MW-7	8.27619	12.4817	-31.4056	23.4484	1776	84.5714
MW-9	19.3333	19.0984	-20.3485	30.4122	1034	114.889
MW-8	144.467	220.605	104.785	30.4122	1310	145.556
SW-2	2.5	1.73205	-37.1818	28.3824	484	44
SW-4	3	2.19089	-36.6818	35.399	264	44

Analysis of Variance Statistics

SS Wells	375669
SS Total	1.54534e+006

Kruskal-Wallis Statistics

Non-Detect Rank	44
Background Rank Sum	3176
Background Rank Mean	144.364
H Statistic	94.0793
H Adjusted for Ties	101.28

Basic Statistics

Parameter: p-Dichlorobenzene
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
215	
Total Non-Detects	207
Pooled Mean	2.85302
Pooled Std Dev	2.17646
Background Mean	2.43182
Background Std Dev	0.319801

Background Wells
There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	22	22	100	53.5

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	2.43182	0.319801	0	2288	104

Compliance Wells
There are 12 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-3	22	22	100	53.5
MW-4	22	22	100	53.5
MW-5	21	21	100	51
MW-6D	22	22	100	53.5
MW-6S	23	15	65.2174	143.9
MW-7	22	22	100	53.5
MW-2	22	22	100	53.5
MW-9	9	9	100	22.5
MW-8	9	9	100	22.5
P-18	4	4	100	10
SW-2	11	11	100	27.5
SW-4	6	6	100	15

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-3	2.43182	0.319801	0	0.567348	2288	104
MW-4	2.43182	0.319801	0	0.567348	2288	104
MW-5	2.42857	0.327327	-0.00324675	0.574062	2184	104
MW-6D	2.43182	0.319801	0	0.567348	2288	104
MW-6S	6.25652	5.64155	3.8247	0.561147	3252	141.391
MW-7	2.43182	0.319801	0	0.567348	2288	104
MW-2	2.43182	0.319801	0	0.567348	2288	104
MW-9	2.5	0	0.0681818	0.74455	936	104
MW-8	2.5	0	0.0681818	0.74455	936	104
P-18	2.5	0	0.0681818	1.0228	416	104
SW-2	2.5	0	0.0681818	0.694857	1144	104
SW-4	2.5	0	0.0681818	0.866638	624	104

Analysis of Variance Statistics

SS Wells	298.49
SS Total	1013.72

Kruskal-Wallis Statistics

Non-Detect Rank	104
Background Rank Sum	2288
Background Rank Mean	104
H Statistic	7.42029
H Adjusted for Ties	69.0084

Basic Statistics

Parameter: cis-1,2-Dichloroethylene
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
215	
Total Non-Detects	193
Pooled Mean	4.61814
Pooled Std Dev	7.33045
Background Mean	2.43182
Background Std Dev	0.319801

Background Wells
There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	22	22	100	53.5

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	2.43182	0.319801	0	2134	97

Compliance Wells
There are 12 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-3	22	22	100	53.5
MW-4	22	22	100	53.5
MW-5	21	21	100	51
MW-6D	22	15	68.1818	167.1
MW-6S	23	13	56.5217	352
MW-7	22	17	77.2727	111.3
MW-2	22	22	100	53.5
MW-9	9	9	100	22.5
MW-8	9	9	100	22.5
P-18	4	4	100	10
SW-2	11	11	100	27.5
SW-4	6	6	100	15

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-3	2.43182	0.319801	0	1.89477	2134	97
MW-4	2.43182	0.319801	0	1.89477	2134	97
MW-5	2.42857	0.327327	-0.00324675	1.91719	2037	97
MW-6D	7.59545	8.19439	5.16364	1.89477	2865	130.227
MW-6S	15.3043	16.1581	12.8725	1.87406	3358	146
MW-7	5.05909	6.2206	2.62727	1.89477	2641	120.045
MW-2	2.43182	0.319801	0	1.89477	2134	97
MW-9	2.5	0	0.0681818	2.48657	873	97
MW-8	2.5	0	0.0681818	2.48657	873	97
P-18	2.5	0	0.0681818	3.41585	388	97
SW-2	2.5	0	0.0681818	2.32061	1067	97
SW-4	2.5	0	0.0681818	2.89431	582	97

Analysis of Variance Statistics

SS Wells	3522.07
SS Total	11499.4

Kruskal-Wallis Statistics

Non-Detect Rank	97
Background Rank Sum	2134
Background Rank Mean	97
H Statistic	16.8427
H Adjusted for Ties	60.883

Basic Statistics

Parameter: Benzene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

	Total Observations
215	
Total Non-Detects	204
Pooled Mean	2.69628
Pooled Std Dev	1.24318
Background Mean	2.43182
Background Std Dev	0.319801

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	22	22	100	53.5

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	2.43182	0.319801	0	2255	102.5

Compliance Wells

There are 12 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-3	22	22	100	53.5
MW-4	22	22	100	53.5
MW-5	21	21	100	51
MW-6D	22	22	100	53.5
MW-6S	23	13	56.5217	107
MW-7	22	21	95.4545	56.7
MW-2	22	22	100	53.5
MW-9	9	9	100	22.5
MW-8	9	9	100	22.5
P-18	4	4	100	10
SW-2	11	11	100	27.5
SW-4	6	6	100	15

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-3	2.43182	0.319801	0	0.322943	2255	102.5
MW-4	2.43182	0.319801	0	0.322943	2255	102.5
MW-5	2.42857	0.327327	-0.00324675	0.326765	2152.5	102.5
MW-6D	2.43182	0.319801	0	0.322943	2255	102.5
MW-6S	4.65217	3.0637	2.22036	0.319414	3435.5	149.37
MW-7	2.57727	0.767142	0.145455	0.322943	2359.5	107.25
MW-2	2.43182	0.319801	0	0.322943	2255	102.5
MW-9	2.5	0	0.0681818	0.42381	922.5	102.5
MW-8	2.5	0	0.0681818	0.42381	922.5	102.5
P-18	2.5	0	0.0681818	0.582194	410	102.5
SW-2	2.5	0	0.0681818	0.395523	1127.5	102.5
SW-4	2.5	0	0.0681818	0.493304	615	102.5

Analysis of Variance Statistics

SS Wells	98.9995
SS Total	330.737

Kruskal-Wallis Statistics

Non-Detect Rank	102.5
Background Rank Sum	2255
Background Rank Mean	102.5
H Statistic	11.5034
H Adjusted for Ties	78.9137

Basic Statistics

Parameter: Zinc

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

	Total Observations
210	
Total Non-Detects	55
Pooled Mean	125.26
Pooled Std Dev	254.452
Background Mean	111.591
Background Std Dev	80.196

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	22	2	9.09091	2455

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	111.591	80.196	0	2969	134.955

Compliance Wells

There are 11 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-3	22	2	9.09091	7164
MW-4	23	1	4.34783	5610
MW-5	21	4	19.0476	1772
MW-6D	22	12	54.5455	327
MW-6S	22	2	9.09091	874
MW-2	22	5	22.7273	1327
MW-7	21	6	28.5714	927
MW-9	9	2	22.2222	1742
MW-8	9	3	33.3333	3889
SW-2	11	10	90.9091	127.5
SW-4	6	6	100	90

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-3	325.636	462.069	214.045	69.5024	3350	152.273
MW-4	243.913	208.33	132.322	68.7428	3707	161.174
MW-5	84.381	134.188	-27.21	70.325	2259	107.571
MW-6D	14.8636	12.2369	-96.7273	69.5024	1052	47.8182
MW-6S	39.7273	18.3126	-71.8636	69.5024	2053	93.3182
MW-2	60.3182	71.3064	-51.2727	69.5024	2157	98.0455
MW-7	44.1429	40.8904	-67.4481	70.325	1810	86.1905
MW-9	193.556	228.883	81.9646	91.2104	1151	127.889
MW-8	432.111	708.543	320.52	91.2104	1122	124.667
SW-2	11.5909	9.76427	-100	85.1227	357	32.4545
SW-4	15	10.9545	-96.5909	106.167	168	28

Analysis of Variance Statistics

SS Wells	3.01083e+006
SS Total	1.35318e+007

Kruskal-Wallis Statistics

Non-Detect Rank	28
Background Rank Sum	2969
Background Rank Mean	134.955
H Statistic	88.4655
H Adjusted for Ties	90.0834

Basic Statistics

Parameter: Cobalt, total
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
210	
Total Non-Detects	64
Pooled Mean	38.3148
Pooled Std Dev	70.9827
Background Mean	80.0182
Background Std Dev	128.549

Background Wells
There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	22	0	0	1760.4

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	80.0182	128.549	0	3313	150.591

Compliance Wells
There are 11 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-3	22	3	13.6364	2084.5
MW-4	23	2	8.69565	1330
MW-5	21	9	42.8571	261
MW-6D	22	17	77.2727	85
MW-6S	22	0	0	447.8
MW-2	22	5	22.7273	570.5
MW-7	21	5	23.8095	342.8
MW-9	9	3	33.3333	209.1
MW-8	9	3	33.3333	897.5
SW-2	11	11	100	35
SW-4	6	6	100	22.5

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-3	94.75	96.2234	14.7318	19.3848	3508.5	159.477
MW-4	57.8261	39.1972	-22.1921	19.173	3474	151.043
MW-5	12.4286	23.3153	-67.5896	19.6142	1470.5	70.0238
MW-6D	3.86364	3.79894	-76.1545	19.3848	968.5	44.0227
MW-6S	20.3545	10.9459	-59.6636	19.3848	2521	114.591
MW-2	25.9318	32.9193	-54.0864	19.3848	2266.5	103.023
MW-7	16.3238	11.165	-63.6944	19.6142	2037.5	97.0238
MW-9	23.2333	25.4679	-56.7848	25.4394	892.5	99.1667
MW-8	99.7222	157.725	19.704	25.4394	1150.5	127.833
SW-2	3.18182	1.16775	-76.8364	23.7415	357.5	32.5
SW-4	3.75	1.36931	-76.2682	29.6108	195	32.5

Analysis of Variance Statistics

SS Wells	234626
SS Total	1.05306e+006

Kruskal-Wallis Statistics

Non-Detect Rank	32.5
Background Rank Sum	3313
Background Rank Mean	150.591
H Statistic	98.8538
H Adjusted for Ties	101.733

Interwell Analyses for Metals

Shapiro-Wilks Test of Normality

Parameter: Chromium
Background Wells
Normality Test of Parameter Concentrations
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL
K = 11; Samples = 22

i	x(i)	x(n-i+1)	x(n-1+1)-x(i)	a(n-i+1)	b(i)
1	0.5	120	119.5	0.459	54.8505
2	2	92	90	0.3156	28.404
3	5	90	85	0.2571	21.8535
4	10	59	49	0.2131	10.4419
5	12.5	58	45.5	0.1764	8.0262
6	15	57	42	0.1443	6.0606
7	19	53	34	0.115	3.91
8	22	51	29	0.0878	2.5462
9	23	43	20	0.0618	1.236
10	34	36	2	0.0368	0.0736
11	35	36	1	0.0122	0.0122
12	36	35	-1		
13	36	34	-2		
14	43	23	-20		
15	51	22	-29		
16	53	19	-34		
17	57	15	-42		
18	58	12.5	-45.5		
19	59	10	-49		
20	90	5	-85		
21	92	2	-90		
22	120	0.5	-119.5		

Sum of b values = 137.415
Sample Standard Deviation = 31.2686
W Statistic = 0.919664
5% Critical value of 0.911 is less than 0.919664
Data is normally distributed at 95% level of significance
1% Critical value of 0.878 is less than 0.919664
Data is normally distributed at 99% level of significance

Parametric Tolerance Interval Analysis

Parameter: Chromium

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

Background mean = 39.6818
Background standard deviation = 31.2686
One-sided normal tolerance factor at 95% confidence = 1.75942
Tolerance factor calculation follows USEPA 1992 Guidance
Upper tolerance limit = 94.6964

Well	Date	Result	Impacted
MW-4	12/15/1997	5	FALSE
	1/26/1998	4	FALSE
	3/16/1998	9	FALSE
	4/20/1998	3	FALSE
	10/20/1998	2	FALSE
	5/19/1999	32	FALSE
	10/19/1999	54	FALSE
	4/18/2000	47	FALSE
	10/24/2000	170	TRUE
	4/26/2001	140	TRUE
	10/15/2001	180	TRUE
	2/18/2002	160	TRUE
	8/20/2002	280	TRUE
	2/19/2003	82	FALSE
	8/26/2003	260	TRUE
	2/24/2004	160	TRUE
	8/10/2004	110	TRUE
	2/23/2005	61	FALSE
	8/23/2005	93	FALSE
	9/15/2005	ND<5	FALSE
	2/23/2006	46	FALSE
	8/28/2006	16	FALSE
	2/15/2007	30	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 = 11; Samples = 22

i	x(i)	x(n-i+1)	x(n-1+1)-x(i)	a(n-i+1)	b(i)
1	2.24071	6.27476	4.03405	0.459	1.85163
2	2.48491	5.98394	3.49903	0.3156	1.10429
3	2.89037	4.78749	1.89712	0.2571	0.48775
4	2.99573	4.36945	1.37372	0.2131	0.292739
5	3.09104	4.33073	1.23969	0.1764	0.218681
6	3.13549	4.06044	0.924949	0.1443	0.13347
7	3.2581	3.97029	0.712195	0.115	0.0819025
8	3.29584	3.95124	0.655407	0.0878	0.0575447
9	3.3673	3.85015	0.482852	0.0618	0.0298402
10	3.55535	3.85015	0.2948	0.0368	0.0108486
11	3.55535	3.78419	0.228842	0.0122	0.00279187
12	3.78419	3.55535	-0.228842		
13	3.85015	3.55535	-0.2948		
14	3.85015	3.3673	-0.482852		
15	3.95124	3.29584	-0.655407		
16	3.97029	3.2581	-0.712195		
17	4.06044	3.13549	-0.924949		
18	4.33073	3.09104	-1.23969		
19	4.36945	2.99573	-1.37372		
20	4.78749	2.89037	-1.89712		
21	5.98394	2.48491	-3.49903		
22	6.27476	2.24071	-4.03405		

Sum of b values = 4.27149
Sample Standard Deviation = 0.976438
W Statistic = 0.911278
5% Critical value of 0.911 is less than 0.911278
Data is normally distributed at 95% level of significance
1% Critical value of 0.878 is less than 0.911278
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 = 3.7765
Background standard deviation = 0.976438
One-sided normal tolerance factor at 95% confidence = 1.75942
Tolerance factor calculation follows USEPA 1992 Guidance
Upper tolerance limit = 5.49446

Well	Date	Result	Impacted
MW-6D	12/15/1997	2.19722	FALSE
	1/26/1998	ND<-0.693147	FALSE
	3/16/1998	1.09861	FALSE
	4/20/1998	ND<-0.693147	FALSE
	10/19/1998	ND<-0.693147	FALSE
	5/19/1999	ND<0.916291	FALSE
	10/18/1999	ND<0.916291	FALSE
	4/18/2000	ND<0.916291	FALSE
	10/26/2000	ND<0.916291	FALSE
	4/26/2001	ND<0.916291	FALSE
	10/15/2001	ND<0.916291	FALSE
	2/18/2002	ND<0.916291	FALSE
	8/20/2002	ND<0.916291	FALSE
	2/19/2003	ND<0.916291	FALSE
	8/26/2003	1.98787	FALSE
	2/24/2004	ND<0.916291	FALSE
	8/10/2004	1.82455	FALSE
	2/23/2005	ND<0.916291	FALSE
	8/23/2005	ND<1.60944	FALSE
	2/23/2006	ND<0.916291	FALSE
	8/28/2006	ND<1.60944	FALSE
	2/15/2007	2.89037	FALSE
MW-6S	12/15/1997	3.73767	FALSE
	1/26/1998	1.79176	FALSE
	3/16/1998	3.3673	FALSE
	4/20/1998	2.56495	FALSE
	10/19/1998	0	FALSE
	5/19/1999	2.2192	FALSE
	10/18/1999	2.63906	FALSE
	4/18/2000	1.66771	FALSE
	10/23/2000	1.66771	FALSE
	4/26/2001	2.70805	FALSE
	10/15/2001	2.94444	FALSE
	2/18/2002	3.2581	FALSE
	8/20/2002	3.09104	FALSE
	2/19/2003	3.3673	FALSE
	8/26/2003	3.13549	FALSE
	2/24/2004	3.55535	FALSE
	8/10/2004	2.99573	FALSE
	2/23/2005	3.52636	FALSE
	8/23/2005	3.09104	FALSE
	2/23/2006	3.13549	FALSE
	8/28/2006	3.09104	FALSE
	2/15/2007	3.49651	FALSE
MW-7	1/26/1998	3.17805	FALSE
	3/16/1998	2.99573	FALSE
	4/20/1998	2.70805	FALSE
	10/20/1998	1.60944	FALSE
	5/19/1999	1.84055	FALSE
	10/19/1999	ND<0.916291	FALSE
	4/18/2000	ND<0.916291	FALSE
	10/24/2000	ND<0.916291	FALSE
	4/26/2001	2.99573	FALSE

10/15/2001	ND<0.916291	FALSE
2/18/2002	2.99573	FALSE
8/20/2002	ND<0.916291	FALSE
2/19/2003	3.17805	FALSE
8/26/2003	3.3673	FALSE
2/24/2004	2.83321	FALSE
8/10/2004	2.56495	FALSE
2/23/2005	3.17805	FALSE
8/23/2005	2.63906	FALSE
2/23/2006	3.55535	FALSE
8/28/2006	3.2581	FALSE
2/15/2007	3.63759	FALSE

Shapiro-Wilks Test of Normality

Parameter: Zinc
Background Wells
Normality Test of Parameter Concentrations
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL
K = 11; Samples = 22

i	x(i)	x(n-i+1)	x(n-1+1)-x(i)	a(n-i+1)	b(i)
1	14	320	306	0.459	140.454
2	25	260	235	0.3156	74.166
3	25	190	165	0.2571	42.4215
4	27	180	153	0.2131	32.6043
5	35	170	135	0.1764	23.814
6	55	170	115	0.1443	16.5945
7	58	160	102	0.115	11.73
8	60	140	80	0.0878	7.024
9	74	110	36	0.0618	2.2248
10	89	100	11	0.0368	0.4048
11	95	98	3	0.0122	0.0366
12	98	95	-3		
13	100	89	-11		
14	110	74	-36		
15	140	60	-80		
16	160	58	-102		
17	170	55	-115		
18	170	35	-135		
19	180	27	-153		
20	190	25	-165		
21	260	25	-235		
22	320	14	-306		

Sum of b values = 351.475
Sample Standard Deviation = 80.196
W Statistic = 0.914667
5% Critical value of 0.911 is less than 0.914667
Data is normally distributed at 95% level of significance
1% Critical value of 0.878 is less than 0.914667
Data is normally distributed at 99% level of significance

Parametric Tolerance Interval Analysis

Parameter: Zinc

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

Background mean = 111.591
Background standard deviation = 80.196
One-sided normal tolerance factor at 95% confidence = 1.75942
Tolerance factor calculation follows USEPA 1992 Guidance
Upper tolerance limit = 252.689

Well	Date	Result	Impacted
MW-6S	12/15/1997	40	FALSE
	1/26/1998	10	FALSE
	3/16/1998	40	FALSE
	4/20/1998	30	FALSE
	10/19/1998	20	FALSE
	5/19/1999	ND<10	FALSE
	10/18/1999	26	FALSE
	4/18/2000	21	FALSE
	10/23/2000	17	FALSE
	4/26/2001	32	FALSE
	10/15/2001	55	FALSE
	2/18/2002	54	FALSE
	8/20/2002	43	FALSE
	2/19/2003	51	FALSE
	8/26/2003	67	FALSE
	2/24/2004	66	FALSE
	8/10/2004	62	FALSE
	2/23/2005	50	FALSE
	8/23/2005	52	FALSE
	2/23/2006	37	FALSE
	8/28/2006	ND<25	FALSE
	2/15/2007	66	FALSE
MW-4	12/15/1997	60	FALSE
	1/26/1998	50	FALSE
	3/16/1998	100	FALSE
	4/20/1998	80	FALSE
	10/20/1998	70	FALSE
	5/19/1999	77	FALSE
	10/19/1999	120	FALSE
	4/18/2000	130	FALSE
	10/24/2000	440	TRUE
	4/26/2001	400	TRUE
	10/15/2001	480	TRUE
	2/18/2002	440	TRUE
	8/20/2002	730	TRUE
	2/19/2003	340	TRUE
	8/26/2003	680	TRUE
	2/24/2004	430	TRUE
	8/10/2004	260	TRUE
	2/23/2005	180	FALSE
	8/23/2005	240	FALSE
	9/15/2005	ND<25	FALSE
	2/23/2006	120	FALSE
	8/28/2006	84	FALSE
	2/15/2007	74	FALSE

Laboratory Results

Pace Analytical™
www.pacelabs.com

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Phone: 704.875.9092
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May 22, 2007

Mr. Bill Block
Cherokee County Landfill
75 Peachtree Street
Murphy, NC 28906

RE: Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Dear Mr. Block:

Enclosed are the analytical results for sample(s) received by the laboratory February 13, 2007through February 16, 2007 Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tom R. Williams

Tom Williams
tom.williams@pacelabs.com
(828) 254-7176
Project Manager

Enclosures

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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928001304 | Project Sample Number: 92137924-001 | Date Collected: 02/12/07 13:40
Client Sample ID: SW-2 | Matrix: Water | Date Received: 02/13/07 09:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-12-07			02/27/07	MPS			
Collected Time	13:40			02/27/07	MPS			
Field pH	7.54			02/27/07	MPS			
Field Specific Conductance	51			02/27/07	MPS			
Field Temperature	5.7			02/27/07	MPS			
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.030	02/15/07 22:33	EWS	7440-36-0		
Arsenic	ND	mg/l	0.010	02/15/07 22:33	EWS	7440-38-2		
Barium	ND	mg/l	0.50	02/15/07 22:33	EWS	7440-39-3		
Beryllium	ND	mg/l	0.0020	02/15/07 22:33	EWS	7440-41-7		
Cadmium	ND	mg/l	0.0010	02/15/07 22:33	EWS	7440-43-9		
Chromium	ND	mg/l	0.010	02/15/07 22:33	EWS	7440-47-3		
Cobalt	ND	mg/l	0.010	02/15/07 22:33	EWS	7440-48-4		
Copper	ND	mg/l	0.20	02/15/07 22:33	EWS	7440-50-8		
Lead	ND	mg/l	0.010	02/15/07 22:33	EWS	7439-92-1		
Nickel	ND	mg/l	0.050	02/15/07 22:33	EWS	7440-02-0		
Selenium	ND	mg/l	0.020	02/15/07 22:33	EWS	7782-49-2		
Silver	ND	mg/l	0.010	02/15/07 22:33	EWS	7440-22-4		
Thallium	ND	mg/l	0.0055	02/15/07 22:33	EWS	7440-28-0		
Vanadium	ND	mg/l	0.040	02/15/07 22:33	EWS	7440-62-2		
Zinc	ND	mg/l	0.050	02/15/07 22:33	EWS	7440-66-6		
Date Digested	02/15/07 09:45			02/15/07 09:45				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/21/07 04:28	DLK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/21/07 04:28	DLK	107-13-1		
Benzene	ND	ug/l	5.0	02/21/07 04:28	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/21/07 04:28	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/21/07 04:28	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	02/21/07 04:28	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/21/07 04:28	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/21/07 04:28	DLK	78-93-3		
Carbon disulfide	ND	ug/l	10.	02/21/07 04:28	DLK	75-15-0		

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

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NC Drinking Water 37706
SC 99006
FL NELAP E87627

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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928001304 Project Sample Number: 92137924-001 Date Collected: 02/12/07 13:40
Client Sample ID: SW-2 Matrix: Water Date Received: 02/13/07 09:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Carbon tetrachloride	ND	ug/l	5.0	02/21/07 04:28	DLK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/21/07 04:28	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	02/21/07 04:28	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	02/21/07 04:28	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/21/07 04:28	DLK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/21/07 04:28	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/21/07 04:28	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/21/07 04:28	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/21/07 04:28	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/21/07 04:28	DLK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/21/07 04:28	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/21/07 04:28	DLK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/21/07 04:28	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/21/07 04:28	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/21/07 04:28	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	02/21/07 04:28	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/21/07 04:28	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/21/07 04:28	DLK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/21/07 04:28	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/21/07 04:28	DLK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/21/07 04:28	DLK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/21/07 04:28	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	02/21/07 04:28	DLK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/21/07 04:28	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/21/07 04:28	DLK	108-10-1		
Styrene	ND	ug/l	5.0	02/21/07 04:28	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/21/07 04:28	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/21/07 04:28	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/21/07 04:28	DLK	127-18-4		
Toluene	ND	ug/l	5.0	02/21/07 04:28	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/21/07 04:28	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/21/07 04:28	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/21/07 04:28	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/21/07 04:28	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/21/07 04:28	DLK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/21/07 04:28	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/21/07 04:28	DLK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/21/07 04:28	DLK			
o-Xylene	ND	ug/l	5.0	02/21/07 04:28	DLK	95-47-6		

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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928001304 Project Sample Number: 92137924-001 Date Collected: 02/12/07 13:40
Client Sample ID: SW-2 Matrix: Water Date Received: 02/13/07 09:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Toluene-d8 (S)	91	%		02/21/07 04:28	DLK	2037-26-5		
4-Bromofluorobenzene (S)	86	%		02/21/07 04:28	DLK	460-00-4		
Dibromofluoromethane (S)	97	%		02/21/07 04:28	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		02/21/07 04:28	DLK	17060-07-0		

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Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928001312 Project Sample Number: 92137924-002 Date Collected: 02/12/07 11:10
Client Sample ID: SW-4 Matrix: Water Date Received: 02/13/07 09:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-12-07			02/27/07	MPS			
Collected Time	11:10			02/27/07	MPS			
Field pH	8.22			02/27/07	MPS			
Field Specific Conductance	52			02/27/07	MPS			
Field Temperature	3.6			02/27/07	MPS			
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.030	02/15/07 22:36	EWS	7440-36-0		
Arsenic	ND	mg/l	0.010	02/15/07 22:36	EWS	7440-38-2		
Barium	ND	mg/l	0.50	02/15/07 22:36	EWS	7440-39-3		
Beryllium	ND	mg/l	0.0020	02/15/07 22:36	EWS	7440-41-7		
Cadmium	ND	mg/l	0.0010	02/15/07 22:36	EWS	7440-43-9		
Chromium	ND	mg/l	0.010	02/15/07 22:36	EWS	7440-47-3		
Cobalt	ND	mg/l	0.010	02/15/07 22:36	EWS	7440-48-4		
Copper	ND	mg/l	0.20	02/15/07 22:36	EWS	7440-50-8		
Lead	ND	mg/l	0.010	02/15/07 22:36	EWS	7439-92-1		
Nickel	ND	mg/l	0.050	02/15/07 22:36	EWS	7440-02-0		
Selenium	ND	mg/l	0.020	02/15/07 22:36	EWS	7782-49-2		
Silver	ND	mg/l	0.010	02/15/07 22:36	EWS	7440-22-4		
Thallium	ND	mg/l	0.0055	02/15/07 22:36	EWS	7440-28-0		
Vanadium	ND	mg/l	0.040	02/15/07 22:36	EWS	7440-62-2		
Zinc	ND	mg/l	0.050	02/15/07 22:36	EWS	7440-66-6		
Date Digested	02/15/07 09:45			02/15/07 09:45				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/21/07 04:46	DLK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/21/07 04:46	DLK	107-13-1		
Benzene	ND	ug/l	5.0	02/21/07 04:46	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/21/07 04:46	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/21/07 04:46	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	02/21/07 04:46	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/21/07 04:46	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/21/07 04:46	DLK	78-93-3		
Carbon disulfide	ND	ug/l	10.	02/21/07 04:46	DLK	75-15-0		

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NC Drinking Water 37712
SC Environmental 99030
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Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928001312 Project Sample Number: 92137924-002 Date Collected: 02/12/07 11:10
Client Sample ID: SW-4 Matrix: Water Date Received: 02/13/07 09:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Carbon tetrachloride	ND	ug/l	5.0	02/21/07 04:46	DLK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/21/07 04:46	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	02/21/07 04:46	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	02/21/07 04:46	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/21/07 04:46	DLK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/21/07 04:46	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/21/07 04:46	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/21/07 04:46	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/21/07 04:46	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/21/07 04:46	DLK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/21/07 04:46	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/21/07 04:46	DLK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/21/07 04:46	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/21/07 04:46	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/21/07 04:46	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	02/21/07 04:46	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/21/07 04:46	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/21/07 04:46	DLK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/21/07 04:46	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/21/07 04:46	DLK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/21/07 04:46	DLK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/21/07 04:46	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	02/21/07 04:46	DLK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/21/07 04:46	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/21/07 04:46	DLK	108-10-1		
Styrene	ND	ug/l	5.0	02/21/07 04:46	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/21/07 04:46	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/21/07 04:46	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/21/07 04:46	DLK	127-18-4		
Toluene	ND	ug/l	5.0	02/21/07 04:46	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/21/07 04:46	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/21/07 04:46	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/21/07 04:46	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/21/07 04:46	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/21/07 04:46	DLK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/21/07 04:46	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/21/07 04:46	DLK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/21/07 04:46	DLK			
o-Xylene	ND	ug/l	5.0	02/21/07 04:46	DLK	95-47-6		

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Pace Analytical Services, Inc.
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Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928001312 Project Sample Number: 92137924-002 Date Collected: 02/12/07 11:10
Client Sample ID: SW-4 Matrix: Water Date Received: 02/13/07 09:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Toluene-d8 (S)	94	%		02/21/07 04:46	DLK	2037-26-5		
4-Bromofluorobenzene (S)	88	%		02/21/07 04:46	DLK	460-00-4		
Dibromofluoromethane (S)	95	%		02/21/07 04:46	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	101	%		02/21/07 04:46	DLK	17060-07-0		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928001320 Project Sample Number: 92137924-003 Date Collected: 02/12/07 16:00
Client Sample ID: LEACHATE Matrix: Water Date Received: 02/13/07 09:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-12-07			02/27/07	MPS			
Collected Time	16:00			02/27/07	MPS			
Field pH	6.70			02/27/07	MPS			
Field Specific Conductance	686			02/27/07	MPS			
Field Temperature	16			02/27/07	MPS			
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	ug/l	5.0	02/15/07 22:40	EWS	7440-36-0		
Arsenic	ND	ug/l	5.0	02/15/07 22:40	EWS	7440-38-2		
Barium	140	ug/l	5.0	02/15/07 22:40	EWS	7440-39-3		
Beryllium	ND	ug/l	1.0	02/15/07 22:40	EWS	7440-41-7		
Cadmium	ND	ug/l	1.0	02/15/07 22:40	EWS	7440-43-9		
Chromium	ND	ug/l	5.0	02/15/07 22:40	EWS	7440-47-3		
Cobalt	ND	ug/l	5.0	02/15/07 22:40	EWS	7440-48-4		
Copper	ND	ug/l	5.0	02/15/07 22:40	EWS	7440-50-8		
Lead	ND	ug/l	5.0	02/15/07 22:40	EWS	7439-92-1		
Nickel	ND	ug/l	5.0	02/15/07 22:40	EWS	7440-02-0		
Selenium	ND	ug/l	10.	02/15/07 22:40	EWS	7782-49-2		
Silver	ND	ug/l	5.0	02/15/07 22:40	EWS	7440-22-4		
Thallium	ND	ug/l	10.	02/15/07 22:40	EWS	7440-28-0		
Tin	ND	ug/l	5.0	02/15/07 22:40	EWS	7440-31-5		
Vanadium	ND	ug/l	5.0	02/15/07 22:40	EWS	7440-62-2		
Zinc	11.	ug/l	10.	02/15/07 22:40	EWS	7440-66-6		
Date Digested	02/15/07 09:45			02/15/07 09:45				
Wet Chemistry								
Total Suspended Solids	Method: EPA 160.2							
Total Suspended Solids	6.3	mg/l	3.3	02/15/07 16:30	SAJ			
28 day NOX	Method: EPA 353.2							
Nitrate-Nitrite (as N)	ND	mg/l	0.10	02/25/07	SHB	7727-37-9		
Nitrate as N	ND	mg/l	0.10	02/25/07	SHB			
Phosphorus, Total	Method: EPA 365.2							
Phosphorus	ND	mg/l	0.100	02/22/07	SHB	7723-14-0		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928001320 Project Sample Number: 92137924-003 Date Collected: 02/12/07 16:00
Client Sample ID: LEACHATE Matrix: Water Date Received: 02/13/07 09:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	ND	mg/l	5.0	02/21/07	SHB			
Biochemical Oxygen Demand, 5 d	Method: EPA 405.1							
BOD, 5 day	12.	mg/l	2.0	02/14/07 07:30	JMW		1	
Chemical Oxygen Demand	Method: EPA 410.4							
Chemical Oxygen Demand	47.	mg/l	25.	02/23/07 14:15	SER			

GC/MS Volatiles

GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/21/07 05:04	DLK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/21/07 05:04	DLK	107-13-1		
Benzene	ND	ug/l	5.0	02/21/07 05:04	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/21/07 05:04	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/21/07 05:04	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	02/21/07 05:04	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/21/07 05:04	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/21/07 05:04	DLK	78-93-3		
Carbon disulfide	ND	ug/l	10.	02/21/07 05:04	DLK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/21/07 05:04	DLK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/21/07 05:04	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	02/21/07 05:04	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	02/21/07 05:04	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/21/07 05:04	DLK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/21/07 05:04	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/21/07 05:04	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/21/07 05:04	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/21/07 05:04	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/21/07 05:04	DLK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/21/07 05:04	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/21/07 05:04	DLK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/21/07 05:04	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/21/07 05:04	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/21/07 05:04	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	02/21/07 05:04	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/21/07 05:04	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/21/07 05:04	DLK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/21/07 05:04	DLK	10061-01-5		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928001320 Project Sample Number: 92137924-003 Date Collected: 02/12/07 16:00
Client Sample ID: LEACHATE Matrix: Water Date Received: 02/13/07 09:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/21/07 05:04	DLK	10061-02-6		
Ethylbenzene	5.8	ug/l	5.0	02/21/07 05:04	DLK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/21/07 05:04	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	02/21/07 05:04	DLK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/21/07 05:04	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/21/07 05:04	DLK	108-10-1		
Styrene	ND	ug/l	5.0	02/21/07 05:04	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/21/07 05:04	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/21/07 05:04	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/21/07 05:04	DLK	127-18-4		
Toluene	ND	ug/l	5.0	02/21/07 05:04	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/21/07 05:04	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/21/07 05:04	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/21/07 05:04	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/21/07 05:04	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/21/07 05:04	DLK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/21/07 05:04	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/21/07 05:04	DLK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/21/07 05:04	DLK			
o-Xylene	ND	ug/l	5.0	02/21/07 05:04	DLK	95-47-6		
Toluene-d8 (S)	90	%		02/21/07 05:04	DLK	2037-26-5		
4-Bromofluorobenzene (S)	87	%		02/21/07 05:04	DLK	460-00-4		
Dibromofluoromethane (S)	95	%		02/21/07 05:04	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	105	%		02/21/07 05:04	DLK	17060-07-0		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018092 Project Sample Number: 92137924-004 Date Collected: 02/15/07 14:30
Client Sample ID: MW-1 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	14:30			02/27/07	MPS			
Field pH	5.45			02/27/07	MPS			
Field Specific Conductance	43			02/27/07	MPS			
Field Temperature	12.2			02/27/07	MPS			
Static Water Level	101.69			02/27/07	MPS			
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.030	02/23/07 17:51	EWS	7440-36-0		
Arsenic	ND	mg/l	0.010	02/23/07 17:51	EWS	7440-38-2		
Barium	ND	mg/l	0.50	02/23/07 17:51	EWS	7440-39-3		
Beryllium	ND	mg/l	0.0020	02/23/07 17:51	EWS	7440-41-7		
Cadmium	ND	mg/l	0.0010	02/23/07 17:51	EWS	7440-43-9		
Chromium	ND	mg/l	0.010	02/23/07 17:51	EWS	7440-47-3		
Cobalt	0.012	mg/l	0.010	02/23/07 17:51	EWS	7440-48-4		
Copper	ND	mg/l	0.20	02/23/07 17:51	EWS	7440-50-8		
Lead	ND	mg/l	0.010	02/23/07 17:51	EWS	7439-92-1		
Nickel	ND	mg/l	0.050	02/23/07 17:51	EWS	7440-02-0		
Selenium	ND	mg/l	0.020	02/23/07 17:51	EWS	7782-49-2		
Silver	ND	mg/l	0.010	02/23/07 17:51	EWS	7440-22-4		
Thallium	ND	mg/l	0.0055	02/23/07 17:51	EWS	7440-28-0		
Vanadium	ND	mg/l	0.040	02/23/07 17:51	EWS	7440-62-2		
Zinc	ND	mg/l	0.050	02/23/07 17:51	EWS	7440-66-6		
Date Digested	02/21/07 07:45			02/21/07 07:45				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/22/07 15:40	MCK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/22/07 15:40	MCK	107-13-1		
Benzene	ND	ug/l	5.0	02/22/07 15:40	MCK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/22/07 15:40	MCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/22/07 15:40	MCK	75-27-4		
Bromoform	ND	ug/l	5.0	02/22/07 15:40	MCK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/22/07 15:40	MCK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/22/07 15:40	MCK	78-93-3		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018092 Project Sample Number: 92137924-004 Date Collected: 02/15/07 14:30
Client Sample ID: MW-1 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	10.	02/22/07 15:40	MCK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/22/07 15:40	MCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/22/07 15:40	MCK	108-90-7		
Chloroethane	ND	ug/l	10.	02/22/07 15:40	MCK	75-00-3		
Chloroform	ND	ug/l	5.0	02/22/07 15:40	MCK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/22/07 15:40	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/22/07 15:40	MCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/22/07 15:40	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/22/07 15:40	MCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/22/07 15:40	MCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/22/07 15:40	MCK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/22/07 15:40	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/22/07 15:40	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/22/07 15:40	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/22/07 15:40	MCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/22/07 15:40	MCK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 15:40	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 15:40	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/22/07 15:40	MCK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 15:40	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 15:40	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/22/07 15:40	MCK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/22/07 15:40	MCK	591-78-6		
Iodomethane	ND	ug/l	10.	02/22/07 15:40	MCK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/22/07 15:40	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/22/07 15:40	MCK	108-10-1		
Styrene	ND	ug/l	5.0	02/22/07 15:40	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 15:40	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 15:40	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/22/07 15:40	MCK	127-18-4		
Toluene	ND	ug/l	5.0	02/22/07 15:40	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/22/07 15:40	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/22/07 15:40	MCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/22/07 15:40	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/22/07 15:40	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/22/07 15:40	MCK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/22/07 15:40	MCK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/22/07 15:40	MCK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/22/07 15:40	MCK			

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Pace Analytical Services, Inc.
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Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018092 Project Sample Number: 92137924-004 Date Collected: 02/15/07 14:30
Client Sample ID: MW-1 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
o-Xylene	ND	ug/l	5.0	02/22/07 15:40	MCK	95-47-6		
Toluene-d8 (S)	98	%		02/22/07 15:40	MCK	2037-26-5		
4-Bromofluorobenzene (S)	101	%		02/22/07 15:40	MCK	460-00-4		
Dibromofluoromethane (S)	98	%		02/22/07 15:40	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		02/22/07 15:40	MCK	17060-07-0		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018100 Project Sample Number: 92137924-005 Date Collected: 02/15/07 15:45
Client Sample ID: MW-2 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	15:45			02/27/07	MPS			
Field pH	6.43			02/27/07	MPS			
Field Specific Conductance	43			02/27/07	MPS			
Field Temperature	14.6			02/27/07	MPS			
Static Water Level	56.99			02/27/07	MPS			
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.030	02/23/07 17:54	EWS	7440-36-0		
Arsenic	ND	mg/l	0.010	02/23/07 17:54	EWS	7440-38-2		
Barium	ND	mg/l	0.50	02/23/07 17:54	EWS	7440-39-3		
Beryllium	ND	mg/l	0.0020	02/23/07 17:54	EWS	7440-41-7		
Cadmium	ND	mg/l	0.0010	02/23/07 17:54	EWS	7440-43-9		
Chromium	ND	mg/l	0.010	02/23/07 17:54	EWS	7440-47-3		
Cobalt	ND	mg/l	0.010	02/23/07 17:54	EWS	7440-48-4		
Copper	ND	mg/l	0.20	02/23/07 17:54	EWS	7440-50-8		
Lead	ND	mg/l	0.010	02/23/07 17:54	EWS	7439-92-1		
Nickel	ND	mg/l	0.050	02/23/07 17:54	EWS	7440-02-0		
Selenium	ND	mg/l	0.020	02/23/07 17:54	EWS	7782-49-2		
Silver	ND	mg/l	0.010	02/23/07 17:54	EWS	7440-22-4		
Thallium	ND	mg/l	0.0055	02/23/07 17:54	EWS	7440-28-0		
Vanadium	ND	mg/l	0.040	02/23/07 17:54	EWS	7440-62-2		
Zinc	ND	mg/l	0.050	02/23/07 17:54	EWS	7440-66-6		
Date Digested	02/21/07 07:45			02/21/07 07:45				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/22/07 15:56	MCK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/22/07 15:56	MCK	107-13-1		
Benzene	ND	ug/l	5.0	02/22/07 15:56	MCK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/22/07 15:56	MCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/22/07 15:56	MCK	75-27-4		
Bromoform	ND	ug/l	5.0	02/22/07 15:56	MCK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/22/07 15:56	MCK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/22/07 15:56	MCK	78-93-3		

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Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018100 Project Sample Number: 92137924-005 Date Collected: 02/15/07 15:45
Client Sample ID: MW-2 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	10.	02/22/07 15:56	MCK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/22/07 15:56	MCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/22/07 15:56	MCK	108-90-7		
Chloroethane	ND	ug/l	10.	02/22/07 15:56	MCK	75-00-3		
Chloroform	ND	ug/l	5.0	02/22/07 15:56	MCK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/22/07 15:56	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/22/07 15:56	MCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/22/07 15:56	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/22/07 15:56	MCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/22/07 15:56	MCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/22/07 15:56	MCK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/22/07 15:56	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/22/07 15:56	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/22/07 15:56	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/22/07 15:56	MCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/22/07 15:56	MCK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 15:56	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 15:56	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/22/07 15:56	MCK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 15:56	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 15:56	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/22/07 15:56	MCK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/22/07 15:56	MCK	591-78-6		
Iodomethane	ND	ug/l	10.	02/22/07 15:56	MCK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/22/07 15:56	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/22/07 15:56	MCK	108-10-1		
Styrene	ND	ug/l	5.0	02/22/07 15:56	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 15:56	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 15:56	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/22/07 15:56	MCK	127-18-4		
Toluene	ND	ug/l	5.0	02/22/07 15:56	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/22/07 15:56	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/22/07 15:56	MCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/22/07 15:56	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/22/07 15:56	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/22/07 15:56	MCK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/22/07 15:56	MCK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/22/07 15:56	MCK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/22/07 15:56	MCK			

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Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018100 Project Sample Number: 92137924-005 Date Collected: 02/15/07 15:45
Client Sample ID: MW-2 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
o-Xylene	ND	ug/l	5.0	02/22/07 15:56	MCK	95-47-6		
Toluene-d8 (S)	94	%		02/22/07 15:56	MCK	2037-26-5		
4-Bromofluorobenzene (S)	100	%		02/22/07 15:56	MCK	460-00-4		
Dibromofluoromethane (S)	99	%		02/22/07 15:56	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		02/22/07 15:56	MCK	17060-07-0		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018118 Project Sample Number: 92137924-006 Date Collected: 02/15/07 15:30
Client Sample ID: MW-3 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	15:30			02/27/07	MPS			
Field pH	6.33			02/27/07	MPS			
Field Specific Conductance	63			02/27/07	MPS			
Field Temperature	13.4			02/27/07	MPS			
Static Water Level	36.67			02/27/07	MPS			
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.030	02/26/07 19:29	SHB	7440-36-0		
Arsenic	ND	mg/l	0.010	02/26/07 19:29	SHB	7440-38-2		
Barium	ND	mg/l	0.50	02/26/07 19:29	SHB	7440-39-3		
Beryllium	ND	mg/l	0.0020	02/26/07 19:29	SHB	7440-41-7		
Cadmium	ND	mg/l	0.0010	02/26/07 19:29	SHB	7440-43-9		
Chromium	ND	mg/l	0.010	02/26/07 19:29	SHB	7440-47-3		
Cobalt	ND	mg/l	0.010	02/26/07 19:29	SHB	7440-48-4		
Copper	ND	mg/l	0.20	02/26/07 19:29	SHB	7440-50-8		
Lead	ND	mg/l	0.010	02/26/07 19:29	SHB	7439-92-1		
Nickel	ND	mg/l	0.050	02/26/07 19:29	SHB	7440-02-0		
Selenium	ND	mg/l	0.020	02/26/07 19:29	SHB	7782-49-2		
Silver	ND	mg/l	0.010	02/26/07 19:29	SHB	7440-22-4		
Thallium	ND	mg/l	0.0055	02/26/07 19:29	SHB	7440-28-0		
Vanadium	ND	mg/l	0.040	02/26/07 19:29	SHB	7440-62-2		
Zinc	ND	mg/l	0.050	02/26/07 19:29	SHB	7440-66-6		
Date Digested	02/22/07 11:45			02/22/07 11:45				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/22/07 16:12	MCK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/22/07 16:12	MCK	107-13-1		
Benzene	ND	ug/l	5.0	02/22/07 16:12	MCK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/22/07 16:12	MCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/22/07 16:12	MCK	75-27-4		
Bromoform	ND	ug/l	5.0	02/22/07 16:12	MCK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/22/07 16:12	MCK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/22/07 16:12	MCK	78-93-3		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018118 Project Sample Number: 92137924-006 Date Collected: 02/15/07 15:30
Client Sample ID: MW-3 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	10.	02/22/07 16:12	MCK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/22/07 16:12	MCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/22/07 16:12	MCK	108-90-7		
Chloroethane	ND	ug/l	10.	02/22/07 16:12	MCK	75-00-3		
Chloroform	ND	ug/l	5.0	02/22/07 16:12	MCK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/22/07 16:12	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/22/07 16:12	MCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/22/07 16:12	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/22/07 16:12	MCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/22/07 16:12	MCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/22/07 16:12	MCK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/22/07 16:12	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/22/07 16:12	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/22/07 16:12	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/22/07 16:12	MCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/22/07 16:12	MCK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 16:12	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 16:12	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/22/07 16:12	MCK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 16:12	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 16:12	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/22/07 16:12	MCK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/22/07 16:12	MCK	591-78-6		
Iodomethane	ND	ug/l	10.	02/22/07 16:12	MCK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/22/07 16:12	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/22/07 16:12	MCK	108-10-1		
Styrene	ND	ug/l	5.0	02/22/07 16:12	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 16:12	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 16:12	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/22/07 16:12	MCK	127-18-4		
Toluene	ND	ug/l	5.0	02/22/07 16:12	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/22/07 16:12	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/22/07 16:12	MCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/22/07 16:12	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/22/07 16:12	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/22/07 16:12	MCK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/22/07 16:12	MCK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/22/07 16:12	MCK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/22/07 16:12	MCK			

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018118 Project Sample Number: 92137924-006 Date Collected: 02/15/07 15:30
Client Sample ID: MW-3 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
o-Xylene	ND	ug/l	5.0	02/22/07 16:12	MCK	95-47-6		
Toluene-d8 (S)	90	%		02/22/07 16:12	MCK	2037-26-5		
4-Bromofluorobenzene (S)	100	%		02/22/07 16:12	MCK	460-00-4		
Dibromofluoromethane (S)	100	%		02/22/07 16:12	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		02/22/07 16:12	MCK	17060-07-0		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018126 Project Sample Number: 92137924-007 Date Collected: 02/15/07 15:15
Client Sample ID: MW-4 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	15:15			02/27/07	MPS			
Field pH	6.05			02/27/07	MPS			
Field Specific Conductance	58			02/27/07	MPS			
Field Temperature	12.3			02/27/07	MPS			
Static Water Level	17.00			02/27/07	MPS			
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.030	02/26/07 19:33	SHB	7440-36-0		
Arsenic	ND	mg/l	0.010	02/26/07 19:33	SHB	7440-38-2		
Barium	ND	mg/l	0.50	02/26/07 19:33	SHB	7440-39-3		
Beryllium	ND	mg/l	0.0020	02/26/07 19:33	SHB	7440-41-7		
Cadmium	ND	mg/l	0.0010	02/26/07 19:33	SHB	7440-43-9		
Chromium	0.030	mg/l	0.010	02/26/07 19:33	SHB	7440-47-3		
Cobalt	0.012	mg/l	0.010	02/26/07 19:33	SHB	7440-48-4		
Copper	ND	mg/l	0.20	02/26/07 19:33	SHB	7440-50-8		
Lead	ND	mg/l	0.010	02/26/07 19:33	SHB	7439-92-1		
Nickel	ND	mg/l	0.050	02/26/07 19:33	SHB	7440-02-0		
Selenium	ND	mg/l	0.020	02/26/07 19:33	SHB	7782-49-2		
Silver	ND	mg/l	0.010	02/26/07 19:33	SHB	7440-22-4		
Thallium	ND	mg/l	0.0055	02/26/07 19:33	SHB	7440-28-0		
Vanadium	ND	mg/l	0.040	02/26/07 19:33	SHB	7440-62-2		
Zinc	0.074	mg/l	0.050	02/26/07 19:33	SHB	7440-66-6		
Date Digested	02/22/07 11:45			02/22/07 11:45				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/22/07 16:28	MCK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/22/07 16:28	MCK	107-13-1		
Benzene	ND	ug/l	5.0	02/22/07 16:28	MCK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/22/07 16:28	MCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/22/07 16:28	MCK	75-27-4		
Bromoform	ND	ug/l	5.0	02/22/07 16:28	MCK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/22/07 16:28	MCK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/22/07 16:28	MCK	78-93-3		

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SC 99006
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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018126 Project Sample Number: 92137924-007 Date Collected: 02/15/07 15:15
Client Sample ID: MW-4 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	10.	02/22/07 16:28	MCK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/22/07 16:28	MCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/22/07 16:28	MCK	108-90-7		
Chloroethane	ND	ug/l	10.	02/22/07 16:28	MCK	75-00-3		
Chloroform	ND	ug/l	5.0	02/22/07 16:28	MCK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/22/07 16:28	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/22/07 16:28	MCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/22/07 16:28	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/22/07 16:28	MCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/22/07 16:28	MCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/22/07 16:28	MCK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/22/07 16:28	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/22/07 16:28	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/22/07 16:28	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/22/07 16:28	MCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/22/07 16:28	MCK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 16:28	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 16:28	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/22/07 16:28	MCK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 16:28	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 16:28	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/22/07 16:28	MCK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/22/07 16:28	MCK	591-78-6		
Iodomethane	ND	ug/l	10.	02/22/07 16:28	MCK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/22/07 16:28	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/22/07 16:28	MCK	108-10-1		
Styrene	ND	ug/l	5.0	02/22/07 16:28	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 16:28	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 16:28	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/22/07 16:28	MCK	127-18-4		
Toluene	ND	ug/l	5.0	02/22/07 16:28	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/22/07 16:28	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/22/07 16:28	MCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/22/07 16:28	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/22/07 16:28	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/22/07 16:28	MCK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/22/07 16:28	MCK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/22/07 16:28	MCK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/22/07 16:28	MCK			

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Pace Analytical Services, Inc.
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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018126 Project Sample Number: 92137924-007 Date Collected: 02/15/07 15:15
Client Sample ID: MW-4 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
o-Xylene	ND	ug/l	5.0	02/22/07 16:28	MCK	95-47-6		
Toluene-d8 (S)	93	%		02/22/07 16:28	MCK	2037-26-5		
4-Bromofluorobenzene (S)	100	%		02/22/07 16:28	MCK	460-00-4		
Dibromofluoromethane (S)	99	%		02/22/07 16:28	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	101	%		02/22/07 16:28	MCK	17060-07-0		

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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018134 Project Sample Number: 92137924-008 Date Collected: 02/15/07 12:40
Client Sample ID: MW-5 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	12:40			02/27/07	MPS			
Field pH	5.88			02/27/07	MPS			
Field Specific Conductance	151			02/27/07	MPS			
Field Temperature	11.4			02/27/07	MPS			
Static Water Level	8.12			02/27/07	MPS			
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.030	02/26/07 19:42	SHB	7440-36-0		
Arsenic	ND	mg/l	0.010	02/26/07 19:42	SHB	7440-38-2		
Barium	ND	mg/l	0.50	02/26/07 19:42	SHB	7440-39-3		
Beryllium	ND	mg/l	0.0020	02/26/07 19:42	SHB	7440-41-7		
Cadmium	ND	mg/l	0.0010	02/26/07 19:42	SHB	7440-43-9		
Chromium	ND	mg/l	0.010	02/26/07 19:42	SHB	7440-47-3		
Cobalt	ND	mg/l	0.010	02/26/07 19:42	SHB	7440-48-4		
Copper	ND	mg/l	0.20	02/26/07 19:42	SHB	7440-50-8		
Lead	ND	mg/l	0.010	02/26/07 19:42	SHB	7439-92-1		
Nickel	ND	mg/l	0.050	02/26/07 19:42	SHB	7440-02-0		
Selenium	ND	mg/l	0.020	02/26/07 19:42	SHB	7782-49-2		
Silver	ND	mg/l	0.010	02/26/07 19:42	SHB	7440-22-4		
Thallium	ND	mg/l	0.0055	02/26/07 19:42	SHB	7440-28-0		
Vanadium	ND	mg/l	0.040	02/26/07 19:42	SHB	7440-62-2		
Zinc	ND	mg/l	0.050	02/26/07 19:42	SHB	7440-66-6		
Date Digested	02/22/07 11:45			02/22/07 11:45				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/22/07 16:44	MCK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/22/07 16:44	MCK	107-13-1		
Benzene	ND	ug/l	5.0	02/22/07 16:44	MCK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/22/07 16:44	MCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/22/07 16:44	MCK	75-27-4		
Bromoform	ND	ug/l	5.0	02/22/07 16:44	MCK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/22/07 16:44	MCK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/22/07 16:44	MCK	78-93-3		

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Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018134 Project Sample Number: 92137924-008 Date Collected: 02/15/07 12:40
Client Sample ID: MW-5 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	10.	02/22/07 16:44	MCK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/22/07 16:44	MCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/22/07 16:44	MCK	108-90-7		
Chloroethane	ND	ug/l	10.	02/22/07 16:44	MCK	75-00-3		
Chloroform	ND	ug/l	5.0	02/22/07 16:44	MCK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/22/07 16:44	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/22/07 16:44	MCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/22/07 16:44	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/22/07 16:44	MCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/22/07 16:44	MCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/22/07 16:44	MCK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/22/07 16:44	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/22/07 16:44	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/22/07 16:44	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/22/07 16:44	MCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/22/07 16:44	MCK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 16:44	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 16:44	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/22/07 16:44	MCK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 16:44	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 16:44	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/22/07 16:44	MCK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/22/07 16:44	MCK	591-78-6		
Iodomethane	ND	ug/l	10.	02/22/07 16:44	MCK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/22/07 16:44	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/22/07 16:44	MCK	108-10-1		
Styrene	ND	ug/l	5.0	02/22/07 16:44	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 16:44	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 16:44	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/22/07 16:44	MCK	127-18-4		
Toluene	ND	ug/l	5.0	02/22/07 16:44	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/22/07 16:44	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/22/07 16:44	MCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/22/07 16:44	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/22/07 16:44	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/22/07 16:44	MCK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/22/07 16:44	MCK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/22/07 16:44	MCK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/22/07 16:44	MCK			

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018134 Project Sample Number: 92137924-008 Date Collected: 02/15/07 12:40
Client Sample ID: MW-5 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
o-Xylene	ND	ug/l	5.0	02/22/07 16:44	MCK	95-47-6		
Toluene-d8 (S)	100	%		02/22/07 16:44	MCK	2037-26-5		
4-Bromofluorobenzene (S)	101	%		02/22/07 16:44	MCK	460-00-4		
Dibromofluoromethane (S)	100	%		02/22/07 16:44	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	104	%		02/22/07 16:44	MCK	17060-07-0		

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Phone: 704.875.9092
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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018159 Project Sample Number: 92137924-009 Date Collected: 02/15/07 13:00
Client Sample ID: MW-6S Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	13:00			02/27/07	MPS			
Field pH	5.80			02/27/07	MPS			
Field Specific Conductance	273			02/27/07	MPS			
Field Temperature	14.8			02/27/07	MPS			
Static Water Level	15.45			02/27/07	MPS			
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.030	02/26/07 19:45	SHB	7440-36-0		
Arsenic	ND	mg/l	0.010	02/26/07 19:45	SHB	7440-38-2		
Barium	ND	mg/l	0.50	02/26/07 19:45	SHB	7440-39-3		
Beryllium	ND	mg/l	0.0020	02/26/07 19:45	SHB	7440-41-7		
Cadmium	ND	mg/l	0.0010	02/26/07 19:45	SHB	7440-43-9		
Chromium	ND	mg/l	0.010	02/26/07 19:45	SHB	7440-47-3		
Cobalt	0.033	mg/l	0.010	02/26/07 19:45	SHB	7440-48-4		
Copper	ND	mg/l	0.20	02/26/07 19:45	SHB	7440-50-8		
Lead	ND	mg/l	0.010	02/26/07 19:45	SHB	7439-92-1		
Nickel	ND	mg/l	0.050	02/26/07 19:45	SHB	7440-02-0		
Selenium	ND	mg/l	0.020	02/26/07 19:45	SHB	7782-49-2		
Silver	ND	mg/l	0.010	02/26/07 19:45	SHB	7440-22-4		
Thallium	ND	mg/l	0.0055	02/26/07 19:45	SHB	7440-28-0		
Vanadium	ND	mg/l	0.040	02/26/07 19:45	SHB	7440-62-2		
Zinc	0.066	mg/l	0.050	02/26/07 19:45	SHB	7440-66-6		
Date Digested	02/22/07 11:45			02/22/07 11:45				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/22/07 17:00	MCK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/22/07 17:00	MCK	107-13-1		
Benzene	5.3	ug/l	5.0	02/22/07 17:00	MCK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/22/07 17:00	MCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/22/07 17:00	MCK	75-27-4		
Bromoform	ND	ug/l	5.0	02/22/07 17:00	MCK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/22/07 17:00	MCK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/22/07 17:00	MCK	78-93-3		

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9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018159 Project Sample Number: 92137924-009 Date Collected: 02/15/07 13:00
Client Sample ID: MW-6S Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	10.	02/22/07 17:00	MCK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/22/07 17:00	MCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/22/07 17:00	MCK	108-90-7		
Chloroethane	ND	ug/l	10.	02/22/07 17:00	MCK	75-00-3		
Chloroform	ND	ug/l	5.0	02/22/07 17:00	MCK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/22/07 17:00	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/22/07 17:00	MCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/22/07 17:00	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/22/07 17:00	MCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/22/07 17:00	MCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/22/07 17:00	MCK	95-50-1		
1,4-Dichlorobenzene	16.	ug/l	5.0	02/22/07 17:00	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/22/07 17:00	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/22/07 17:00	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/22/07 17:00	MCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/22/07 17:00	MCK	75-35-4		
cis-1,2-Dichloroethene	32.	ug/l	5.0	02/22/07 17:00	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 17:00	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/22/07 17:00	MCK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 17:00	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 17:00	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/22/07 17:00	MCK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/22/07 17:00	MCK	591-78-6		
Iodomethane	ND	ug/l	10.	02/22/07 17:00	MCK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/22/07 17:00	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/22/07 17:00	MCK	108-10-1		
Styrene	ND	ug/l	5.0	02/22/07 17:00	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 17:00	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 17:00	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/22/07 17:00	MCK	127-18-4		
Toluene	ND	ug/l	5.0	02/22/07 17:00	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/22/07 17:00	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/22/07 17:00	MCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/22/07 17:00	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/22/07 17:00	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/22/07 17:00	MCK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/22/07 17:00	MCK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/22/07 17:00	MCK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/22/07 17:00	MCK			

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SC Environmental 99030
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Pace Analytical Services, Inc.
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Phone: 704.875.9092
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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018159 Project Sample Number: 92137924-009 Date Collected: 02/15/07 13:00
Client Sample ID: MW-6S Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
o-Xylene	ND	ug/l	5.0	02/22/07 17:00	MCK	95-47-6		
Toluene-d8 (S)	97	%		02/22/07 17:00	MCK	2037-26-5		
4-Bromofluorobenzene (S)	101	%		02/22/07 17:00	MCK	460-00-4		
Dibromofluoromethane (S)	99	%		02/22/07 17:00	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		02/22/07 17:00	MCK	17060-07-0		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018167 Project Sample Number: 92137924-010 Date Collected: 02/15/07 12:55
Client Sample ID: MW-6D Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	12:55			02/27/07	MPS			
Field pH	6.97			02/27/07	MPS			
Field Specific Conductance	930			02/27/07	MPS			
Field Temperature	15.1			02/27/07	MPS			
Static Water Level	26.15			02/27/07	MPS			
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.030	02/26/07 19:48	SHB	7440-36-0		
Arsenic	ND	mg/l	0.010	02/26/07 19:48	SHB	7440-38-2		
Barium	ND	mg/l	0.50	02/26/07 19:48	SHB	7440-39-3		
Beryllium	ND	mg/l	0.0020	02/26/07 19:48	SHB	7440-41-7		
Cadmium	ND	mg/l	0.0010	02/26/07 19:48	SHB	7440-43-9		
Chromium	ND	mg/l	0.010	02/26/07 19:48	SHB	7440-47-3		
Cobalt	0.018	mg/l	0.010	02/26/07 19:48	SHB	7440-48-4		
Copper	ND	mg/l	0.20	02/26/07 19:48	SHB	7440-50-8		
Lead	ND	mg/l	0.010	02/26/07 19:48	SHB	7439-92-1		
Nickel	ND	mg/l	0.050	02/26/07 19:48	SHB	7440-02-0		
Selenium	ND	mg/l	0.020	02/26/07 19:48	SHB	7782-49-2		
Silver	ND	mg/l	0.010	02/26/07 19:48	SHB	7440-22-4		
Thallium	ND	mg/l	0.0055	02/26/07 19:48	SHB	7440-28-0		
Vanadium	ND	mg/l	0.040	02/26/07 19:48	SHB	7440-62-2		
Zinc	ND	mg/l	0.050	02/26/07 19:48	SHB	7440-66-6		
Date Digested	02/22/07 11:45			02/22/07 11:45				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/22/07 17:17	MCK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/22/07 17:17	MCK	107-13-1		
Benzene	ND	ug/l	5.0	02/22/07 17:17	MCK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/22/07 17:17	MCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/22/07 17:17	MCK	75-27-4		
Bromoform	ND	ug/l	5.0	02/22/07 17:17	MCK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/22/07 17:17	MCK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/22/07 17:17	MCK	78-93-3		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018167 Project Sample Number: 92137924-010 Date Collected: 02/15/07 12:55
Client Sample ID: MW-6D Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	10.	02/22/07 17:17	MCK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/22/07 17:17	MCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/22/07 17:17	MCK	108-90-7		
Chloroethane	ND	ug/l	10.	02/22/07 17:17	MCK	75-00-3		
Chloroform	ND	ug/l	5.0	02/22/07 17:17	MCK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/22/07 17:17	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/22/07 17:17	MCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/22/07 17:17	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/22/07 17:17	MCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/22/07 17:17	MCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/22/07 17:17	MCK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/22/07 17:17	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/22/07 17:17	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/22/07 17:17	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/22/07 17:17	MCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/22/07 17:17	MCK	75-35-4		
cis-1,2-Dichloroethene	21.	ug/l	5.0	02/22/07 17:17	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 17:17	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/22/07 17:17	MCK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 17:17	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 17:17	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/22/07 17:17	MCK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/22/07 17:17	MCK	591-78-6		
Iodomethane	ND	ug/l	10.	02/22/07 17:17	MCK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/22/07 17:17	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/22/07 17:17	MCK	108-10-1		
Styrene	ND	ug/l	5.0	02/22/07 17:17	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 17:17	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 17:17	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/22/07 17:17	MCK	127-18-4		
Toluene	ND	ug/l	5.0	02/22/07 17:17	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/22/07 17:17	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/22/07 17:17	MCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/22/07 17:17	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/22/07 17:17	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/22/07 17:17	MCK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/22/07 17:17	MCK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/22/07 17:17	MCK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/22/07 17:17	MCK			

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Phone: 704.875.9092
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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018167 Project Sample Number: 92137924-010 Date Collected: 02/15/07 12:55
Client Sample ID: MW-6D Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
o-Xylene	ND	ug/l	5.0	02/22/07 17:17	MCK	95-47-6		
Toluene-d8 (S)	94	%		02/22/07 17:17	MCK	2037-26-5		
4-Bromofluorobenzene (S)	99	%		02/22/07 17:17	MCK	460-00-4		
Dibromofluoromethane (S)	99	%		02/22/07 17:17	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		02/22/07 17:17	MCK	17060-07-0		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018183 Project Sample Number: 92137924-011 Date Collected: 02/15/07 13:30
Client Sample ID: MW-7 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	13:30			02/27/07	MPS			
Field pH	5.77			02/27/07	MPS			
Field Specific Conductance	227			02/27/07	MPS			
Field Temperature	14.1			02/27/07	MPS			
Static Water Level	20.17			02/27/07	MPS			
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.030	02/26/07 19:52	SHB	7440-36-0		
Arsenic	ND	mg/l	0.010	02/26/07 19:52	SHB	7440-38-2		
Barium	ND	mg/l	0.50	02/26/07 19:52	SHB	7440-39-3		
Beryllium	ND	mg/l	0.0020	02/26/07 19:52	SHB	7440-41-7		
Cadmium	ND	mg/l	0.0010	02/26/07 19:52	SHB	7440-43-9		
Chromium	ND	mg/l	0.010	02/26/07 19:52	SHB	7440-47-3		
Cobalt	0.038	mg/l	0.010	02/26/07 19:52	SHB	7440-48-4		
Copper	ND	mg/l	0.20	02/26/07 19:52	SHB	7440-50-8		
Lead	ND	mg/l	0.010	02/26/07 19:52	SHB	7439-92-1		
Nickel	ND	mg/l	0.050	02/26/07 19:52	SHB	7440-02-0		
Selenium	ND	mg/l	0.020	02/26/07 19:52	SHB	7782-49-2		
Silver	ND	mg/l	0.010	02/26/07 19:52	SHB	7440-22-4		
Thallium	ND	mg/l	0.0055	02/26/07 19:52	SHB	7440-28-0		
Vanadium	ND	mg/l	0.040	02/26/07 19:52	SHB	7440-62-2		
Zinc	ND	mg/l	0.050	02/26/07 19:52	SHB	7440-66-6		
Date Digested	02/22/07 11:45			02/22/07 11:45				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/22/07 17:33	MCK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/22/07 17:33	MCK	107-13-1		
Benzene	5.7	ug/l	5.0	02/22/07 17:33	MCK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/22/07 17:33	MCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/22/07 17:33	MCK	75-27-4		
Bromoform	ND	ug/l	5.0	02/22/07 17:33	MCK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/22/07 17:33	MCK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/22/07 17:33	MCK	78-93-3		

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Client Project ID: SUBTITLE D LF

Lab Sample No: 928018183 Project Sample Number: 92137924-011 Date Collected: 02/15/07 13:30
Client Sample ID: MW-7 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	10.	02/22/07 17:33	MCK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/22/07 17:33	MCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/22/07 17:33	MCK	108-90-7		
Chloroethane	ND	ug/l	10.	02/22/07 17:33	MCK	75-00-3		
Chloroform	ND	ug/l	5.0	02/22/07 17:33	MCK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/22/07 17:33	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/22/07 17:33	MCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/22/07 17:33	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/22/07 17:33	MCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/22/07 17:33	MCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/22/07 17:33	MCK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/22/07 17:33	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/22/07 17:33	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/22/07 17:33	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/22/07 17:33	MCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/22/07 17:33	MCK	75-35-4		
cis-1,2-Dichloroethene	20.	ug/l	5.0	02/22/07 17:33	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 17:33	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/22/07 17:33	MCK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 17:33	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 17:33	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/22/07 17:33	MCK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/22/07 17:33	MCK	591-78-6		
Iodomethane	ND	ug/l	10.	02/22/07 17:33	MCK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/22/07 17:33	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/22/07 17:33	MCK	108-10-1		
Styrene	ND	ug/l	5.0	02/22/07 17:33	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 17:33	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 17:33	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/22/07 17:33	MCK	127-18-4		
Toluene	ND	ug/l	5.0	02/22/07 17:33	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/22/07 17:33	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/22/07 17:33	MCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/22/07 17:33	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/22/07 17:33	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/22/07 17:33	MCK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/22/07 17:33	MCK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/22/07 17:33	MCK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/22/07 17:33	MCK			

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Pace Analytical Services, Inc.
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Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018183 Project Sample Number: 92137924-011 Date Collected: 02/15/07 13:30
Client Sample ID: MW-7 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
o-Xylene	ND	ug/l	5.0	02/22/07 17:33	MCK	95-47-6		
Toluene-d8 (S)	94	%		02/22/07 17:33	MCK	2037-26-5		
4-Bromofluorobenzene (S)	100	%		02/22/07 17:33	MCK	460-00-4		
Dibromofluoromethane (S)	100	%		02/22/07 17:33	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	101	%		02/22/07 17:33	MCK	17060-07-0		

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Phone: 704.875.9092
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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018191 Project Sample Number: 92137924-012 Date Collected: 02/15/07 13:20
Client Sample ID: MW-8 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	13:20			02/27/07	MPS			
Field pH	6.55			02/27/07	MPS			
Field Specific Conductance	110			02/27/07	MPS			
Field Temperature	12.8			02/27/07	MPS			
Static Water Level	11.72			02/27/07	MPS			
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.030	02/26/07 19:55	SHB	7440-36-0		
Arsenic	ND	mg/l	0.010	02/26/07 19:55	SHB	7440-38-2		
Barium	ND	mg/l	0.50	02/26/07 19:55	SHB	7440-39-3		
Beryllium	ND	mg/l	0.0020	02/26/07 19:55	SHB	7440-41-7		
Cadmium	ND	mg/l	0.0010	02/26/07 19:55	SHB	7440-43-9		
Chromium	ND	mg/l	0.010	02/26/07 19:55	SHB	7440-47-3		
Cobalt	ND	mg/l	0.010	02/26/07 19:55	SHB	7440-48-4		
Copper	ND	mg/l	0.20	02/26/07 19:55	SHB	7440-50-8		
Lead	ND	mg/l	0.010	02/26/07 19:55	SHB	7439-92-1		
Nickel	ND	mg/l	0.050	02/26/07 19:55	SHB	7440-02-0		
Selenium	ND	mg/l	0.020	02/26/07 19:55	SHB	7782-49-2		
Silver	ND	mg/l	0.010	02/26/07 19:55	SHB	7440-22-4		
Thallium	ND	mg/l	0.0055	02/26/07 19:55	SHB	7440-28-0		
Vanadium	ND	mg/l	0.040	02/26/07 19:55	SHB	7440-62-2		
Zinc	ND	mg/l	0.050	02/26/07 19:55	SHB	7440-66-6		
Date Digested	02/22/07 11:45			02/22/07 11:45				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/23/07 16:45	MCK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/23/07 16:45	MCK	107-13-1		
Benzene	ND	ug/l	5.0	02/23/07 16:45	MCK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/23/07 16:45	MCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/23/07 16:45	MCK	75-27-4		
Bromoform	ND	ug/l	5.0	02/23/07 16:45	MCK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/23/07 16:45	MCK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/23/07 16:45	MCK	78-93-3		

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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018191 Project Sample Number: 92137924-012 Date Collected: 02/15/07 13:20
Client Sample ID: MW-8 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	10.	02/23/07 16:45	MCK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/23/07 16:45	MCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/23/07 16:45	MCK	108-90-7		
Chloroethane	ND	ug/l	10.	02/23/07 16:45	MCK	75-00-3		
Chloroform	ND	ug/l	5.0	02/23/07 16:45	MCK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/23/07 16:45	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/23/07 16:45	MCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/23/07 16:45	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/23/07 16:45	MCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/23/07 16:45	MCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/23/07 16:45	MCK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/23/07 16:45	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/23/07 16:45	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/23/07 16:45	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/23/07 16:45	MCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/23/07 16:45	MCK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	02/23/07 16:45	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/23/07 16:45	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/23/07 16:45	MCK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/23/07 16:45	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/23/07 16:45	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/23/07 16:45	MCK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/23/07 16:45	MCK	591-78-6		
Iodomethane	ND	ug/l	10.	02/23/07 16:45	MCK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/23/07 16:45	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/23/07 16:45	MCK	108-10-1		
Styrene	ND	ug/l	5.0	02/23/07 16:45	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/23/07 16:45	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/23/07 16:45	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/23/07 16:45	MCK	127-18-4		
Toluene	ND	ug/l	5.0	02/23/07 16:45	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/23/07 16:45	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/23/07 16:45	MCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/23/07 16:45	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/23/07 16:45	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/23/07 16:45	MCK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/23/07 16:45	MCK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/23/07 16:45	MCK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/23/07 16:45	MCK			

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Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018191 Project Sample Number: 92137924-012 Date Collected: 02/15/07 13:20
Client Sample ID: MW-8 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
o-Xylene	ND	ug/l	5.0	02/23/07 16:45	MCK	95-47-6		
Toluene-d8 (S)	94	%		02/23/07 16:45	MCK	2037-26-5		
4-Bromofluorobenzene (S)	102	%		02/23/07 16:45	MCK	460-00-4		
Dibromofluoromethane (S)	99	%		02/23/07 16:45	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	104	%		02/23/07 16:45	MCK	17060-07-0		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018209 Project Sample Number: 92137924-013 Date Collected: 02/15/07 13:45
Client Sample ID: MW-9 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	13:45			02/27/07	MPS			
Field pH	5.90			02/27/07	MPS			
Field Specific Conductance	22			02/27/07	MPS			
Field Temperature	14.1			02/27/07	MPS			
Static Water Level	23.86			02/27/07	MPS			
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.030	02/26/07 19:58	SHB	7440-36-0		
Arsenic	ND	mg/l	0.010	02/26/07 19:58	SHB	7440-38-2		
Barium	ND	mg/l	0.50	02/26/07 19:58	SHB	7440-39-3		
Beryllium	ND	mg/l	0.0020	02/26/07 19:58	SHB	7440-41-7		
Cadmium	ND	mg/l	0.0010	02/26/07 19:58	SHB	7440-43-9		
Chromium	ND	mg/l	0.010	02/26/07 19:58	SHB	7440-47-3		
Cobalt	ND	mg/l	0.010	02/26/07 19:58	SHB	7440-48-4		
Copper	ND	mg/l	0.20	02/26/07 19:58	SHB	7440-50-8		
Lead	ND	mg/l	0.010	02/26/07 19:58	SHB	7439-92-1		
Nickel	ND	mg/l	0.050	02/26/07 19:58	SHB	7440-02-0		
Selenium	ND	mg/l	0.020	02/26/07 19:58	SHB	7782-49-2		
Silver	ND	mg/l	0.010	02/26/07 19:58	SHB	7440-22-4		
Thallium	ND	mg/l	0.0055	02/26/07 19:58	SHB	7440-28-0		
Vanadium	ND	mg/l	0.040	02/26/07 19:58	SHB	7440-62-2		
Zinc	ND	mg/l	0.050	02/26/07 19:58	SHB	7440-66-6		
Date Digested	02/22/07 11:45			02/22/07 11:45				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/23/07 17:05	MCK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/23/07 17:05	MCK	107-13-1		
Benzene	ND	ug/l	5.0	02/23/07 17:05	MCK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/23/07 17:05	MCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/23/07 17:05	MCK	75-27-4		
Bromoform	ND	ug/l	5.0	02/23/07 17:05	MCK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/23/07 17:05	MCK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/23/07 17:05	MCK	78-93-3		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018209 Project Sample Number: 92137924-013 Date Collected: 02/15/07 13:45
Client Sample ID: MW-9 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	10.	02/23/07 17:05	MCK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/23/07 17:05	MCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/23/07 17:05	MCK	108-90-7		
Chloroethane	ND	ug/l	10.	02/23/07 17:05	MCK	75-00-3		
Chloroform	ND	ug/l	5.0	02/23/07 17:05	MCK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/23/07 17:05	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/23/07 17:05	MCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/23/07 17:05	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/23/07 17:05	MCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/23/07 17:05	MCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/23/07 17:05	MCK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/23/07 17:05	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/23/07 17:05	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/23/07 17:05	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/23/07 17:05	MCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/23/07 17:05	MCK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	02/23/07 17:05	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/23/07 17:05	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/23/07 17:05	MCK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/23/07 17:05	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/23/07 17:05	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/23/07 17:05	MCK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/23/07 17:05	MCK	591-78-6		
Iodomethane	ND	ug/l	10.	02/23/07 17:05	MCK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/23/07 17:05	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/23/07 17:05	MCK	108-10-1		
Styrene	ND	ug/l	5.0	02/23/07 17:05	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/23/07 17:05	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/23/07 17:05	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/23/07 17:05	MCK	127-18-4		
Toluene	ND	ug/l	5.0	02/23/07 17:05	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/23/07 17:05	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/23/07 17:05	MCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/23/07 17:05	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/23/07 17:05	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/23/07 17:05	MCK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/23/07 17:05	MCK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/23/07 17:05	MCK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/23/07 17:05	MCK			

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018209 Project Sample Number: 92137924-013 Date Collected: 02/15/07 13:45
Client Sample ID: MW-9 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
o-Xylene	ND	ug/l	5.0	02/23/07 17:05	MCK	95-47-6		
Toluene-d8 (S)	99	%		02/23/07 17:05	MCK	2037-26-5		
4-Bromofluorobenzene (S)	101	%		02/23/07 17:05	MCK	460-00-4		
Dibromofluoromethane (S)	101	%		02/23/07 17:05	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	108	%		02/23/07 17:05	MCK	17060-07-0		

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NC Drinking Water 37706
SC 99006
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Pace Analytical Services, Inc.
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Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018332 Project Sample Number: 92137924-014 Date Collected: 02/15/07 12:10
Client Sample ID: P-18 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	12:10			02/27/07	MPS			
Field pH	NA			02/27/07	MPS			
Field Specific Conductance	NA			02/27/07	MPS			
Field Temperature	NA			02/27/07	MPS			
Static Water Level	10.07			02/27/07	MPS			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/24/07 09:04	MCK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/24/07 09:04	MCK	107-13-1		
Benzene	ND	ug/l	5.0	02/24/07 09:04	MCK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/24/07 09:04	MCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/24/07 09:04	MCK	75-27-4		
Bromoform	ND	ug/l	5.0	02/24/07 09:04	MCK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/24/07 09:04	MCK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/24/07 09:04	MCK	78-93-3		
Carbon disulfide	ND	ug/l	10.	02/24/07 09:04	MCK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/24/07 09:04	MCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/24/07 09:04	MCK	108-90-7		
Chloroethane	ND	ug/l	10.	02/24/07 09:04	MCK	75-00-3		
Chloroform	ND	ug/l	5.0	02/24/07 09:04	MCK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/24/07 09:04	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/24/07 09:04	MCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/24/07 09:04	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/24/07 09:04	MCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/24/07 09:04	MCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/24/07 09:04	MCK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/24/07 09:04	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/24/07 09:04	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/24/07 09:04	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/24/07 09:04	MCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/24/07 09:04	MCK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	02/24/07 09:04	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/24/07 09:04	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/24/07 09:04	MCK	78-87-5		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018332 Project Sample Number: 92137924-014 Date Collected: 02/15/07 12:10
Client Sample ID: P-18 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/24/07 09:04	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/24/07 09:04	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/24/07 09:04	MCK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/24/07 09:04	MCK	591-78-6		
Iodomethane	ND	ug/l	10.	02/24/07 09:04	MCK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/24/07 09:04	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/24/07 09:04	MCK	108-10-1		
Styrene	ND	ug/l	5.0	02/24/07 09:04	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/24/07 09:04	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/24/07 09:04	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/24/07 09:04	MCK	127-18-4		
Toluene	ND	ug/l	5.0	02/24/07 09:04	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/24/07 09:04	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/24/07 09:04	MCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/24/07 09:04	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/24/07 09:04	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/24/07 09:04	MCK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/24/07 09:04	MCK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/24/07 09:04	MCK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/24/07 09:04	MCK			
o-Xylene	ND	ug/l	5.0	02/24/07 09:04	MCK	95-47-6		
Toluene-d8 (S)	86	%		02/24/07 09:04	MCK	2037-26-5		
4-Bromofluorobenzene (S)	99	%		02/24/07 09:04	MCK	460-00-4		
Dibromofluoromethane (S)	100	%		02/24/07 09:04	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	105	%		02/24/07 09:04	MCK	17060-07-0		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018365 Project Sample Number: 92137924-015 Date Collected: 02/15/07 10:30
Client Sample ID: P2-5S Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	10:30			02/27/07	MPS			
Static Water Level	101.02			02/27/07	MPS			

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018381 Project Sample Number: 92137924-016 Date Collected: 02/15/07 10:35
Client Sample ID: P2-5D Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	10:35			02/27/07	MPS			
Static Water Level	109.64			02/27/07	MPS			

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018399 Project Sample Number: 92137924-017 Date Collected: 02/15/07 14:45
Client Sample ID: P-4 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	14:45			02/27/07	MPS			
Static Water Level	7.99			02/27/07	MPS			

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018407 Project Sample Number: 92137924-018 Date Collected: 02/15/07 12:00
Client Sample ID: P-17 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	12:00			02/27/07	MPS			
Static Water Level	11.75			02/27/07	MPS			

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018415 Project Sample Number: 92137924-019 Date Collected: 02/15/07 12:10
Client Sample ID: P-19 Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Field Services								
Monitoring Well Data	Method:							
Collected By	MPS			02/27/07	MPS			
Collected Date	2-15-07			02/27/07	MPS			
Collected Time	12:20			02/27/07	MPS			
Static Water Level	8.69			02/27/07	MPS			

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018423 Project Sample Number: 92137924-020 Date Collected: 02/09/07 00:00
Client Sample ID: TVL BLK Matrix: Water Date Received: 02/16/07 10:00

GC/MS Volatiles

GC/MS VOCs by 8260 Method: EPA 8260

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Acetone	ND	ug/l	25.	02/22/07 12:10	MCK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/22/07 12:10	MCK	107-13-1		
Benzene	ND	ug/l	5.0	02/22/07 12:10	MCK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/22/07 12:10	MCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/22/07 12:10	MCK	75-27-4		
Bromoform	ND	ug/l	5.0	02/22/07 12:10	MCK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/22/07 12:10	MCK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/22/07 12:10	MCK	78-93-3		
Carbon disulfide	ND	ug/l	10.	02/22/07 12:10	MCK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/22/07 12:10	MCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/22/07 12:10	MCK	108-90-7		
Chloroethane	ND	ug/l	10.	02/22/07 12:10	MCK	75-00-3		
Chloroform	ND	ug/l	5.0	02/22/07 12:10	MCK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/22/07 12:10	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/22/07 12:10	MCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/22/07 12:10	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/22/07 12:10	MCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/22/07 12:10	MCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	02/22/07 12:10	MCK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/22/07 12:10	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/22/07 12:10	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/22/07 12:10	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/22/07 12:10	MCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/22/07 12:10	MCK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 12:10	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 12:10	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/22/07 12:10	MCK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 12:10	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 12:10	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/22/07 12:10	MCK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/22/07 12:10	MCK	591-78-6		
Iodomethane	ND	ug/l	10.	02/22/07 12:10	MCK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/22/07 12:10	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/22/07 12:10	MCK	108-10-1		
Styrene	ND	ug/l	5.0	02/22/07 12:10	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 12:10	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 12:10	MCK	79-34-5		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018423 Project Sample Number: 92137924-020 Date Collected: 02/09/07 00:00
Client Sample ID: TVL BLK Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Tetrachloroethene	ND	ug/l	5.0	02/22/07 12:10	MCK	127-18-4		
Toluene	ND	ug/l	5.0	02/22/07 12:10	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/22/07 12:10	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/22/07 12:10	MCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/22/07 12:10	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/22/07 12:10	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/22/07 12:10	MCK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/22/07 12:10	MCK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/22/07 12:10	MCK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/22/07 12:10	MCK			
o-Xylene	ND	ug/l	5.0	02/22/07 12:10	MCK	95-47-6		
Toluene-d8 (S)	97	%		02/22/07 12:10	MCK	2037-26-5		
4-Bromofluorobenzene (S)	99	%		02/22/07 12:10	MCK	460-00-4		
Dibromofluoromethane (S)	98	%		02/22/07 12:10	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	101	%		02/22/07 12:10	MCK	17060-07-0		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018456 Project Sample Number: 92137924-021 Date Collected: 02/09/07 00:00
Client Sample ID: EQUIP BLK Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.030	02/23/07 17:48	EWS	7440-36-0		
Arsenic	ND	mg/l	0.010	02/23/07 17:48	EWS	7440-38-2		
Barium	ND	mg/l	0.50	02/23/07 17:48	EWS	7440-39-3		
Beryllium	ND	mg/l	0.0020	02/23/07 17:48	EWS	7440-41-7		
Cadmium	ND	mg/l	0.0010	02/23/07 17:48	EWS	7440-43-9		
Chromium	ND	mg/l	0.010	02/23/07 17:48	EWS	7440-47-3		
Cobalt	ND	mg/l	0.010	02/23/07 17:48	EWS	7440-48-4		
Copper	ND	mg/l	0.20	02/23/07 17:48	EWS	7440-50-8		
Lead	ND	mg/l	0.010	02/23/07 17:48	EWS	7439-92-1		
Nickel	ND	mg/l	0.050	02/23/07 17:48	EWS	7440-02-0		
Selenium	ND	mg/l	0.020	02/23/07 17:48	EWS	7782-49-2		
Silver	ND	mg/l	0.010	02/23/07 17:48	EWS	7440-22-4		
Thallium	ND	mg/l	0.0055	02/23/07 17:48	EWS	7440-28-0		
Vanadium	ND	mg/l	0.040	02/23/07 17:48	EWS	7440-62-2		
Zinc	ND	mg/l	0.050	02/23/07 17:48	EWS	7440-66-6		
Date Digested	02/21/07 07:45			02/21/07 07:45				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	02/22/07 12:26	MCK	67-64-1		
Acrylonitrile	ND	ug/l	25.	02/22/07 12:26	MCK	107-13-1		
Benzene	ND	ug/l	5.0	02/22/07 12:26	MCK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	02/22/07 12:26	MCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	02/22/07 12:26	MCK	75-27-4		
Bromoform	ND	ug/l	5.0	02/22/07 12:26	MCK	75-25-2		
Bromomethane	ND	ug/l	5.0	02/22/07 12:26	MCK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	02/22/07 12:26	MCK	78-93-3		
Carbon disulfide	ND	ug/l	10.	02/22/07 12:26	MCK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	02/22/07 12:26	MCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	02/22/07 12:26	MCK	108-90-7		
Chloroethane	ND	ug/l	10.	02/22/07 12:26	MCK	75-00-3		
Chloroform	ND	ug/l	5.0	02/22/07 12:26	MCK	67-66-3		
Chloromethane	ND	ug/l	5.0	02/22/07 12:26	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	02/22/07 12:26	MCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	02/22/07 12:26	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	02/22/07 12:26	MCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	02/22/07 12:26	MCK	74-95-3		

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Pace Analytical Services, Inc.
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Phone: 704.875.9092
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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

Lab Sample No: 928018456 Project Sample Number: 92137924-021 Date Collected: 02/09/07 00:00
Client Sample ID: EQUIP BLK Matrix: Water Date Received: 02/16/07 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
1,2-Dichlorobenzene	ND	ug/l	5.0	02/22/07 12:26	MCK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	02/22/07 12:26	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	02/22/07 12:26	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	5.0	02/22/07 12:26	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	02/22/07 12:26	MCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	02/22/07 12:26	MCK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 12:26	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	02/22/07 12:26	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	02/22/07 12:26	MCK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 12:26	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	02/22/07 12:26	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	02/22/07 12:26	MCK	100-41-4		
2-Hexanone	ND	ug/l	10.	02/22/07 12:26	MCK	591-78-6		
Iodomethane	ND	ug/l	10.	02/22/07 12:26	MCK	74-88-4		
Methylene chloride	ND	ug/l	5.0	02/22/07 12:26	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	02/22/07 12:26	MCK	108-10-1		
Styrene	ND	ug/l	5.0	02/22/07 12:26	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 12:26	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	02/22/07 12:26	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	02/22/07 12:26	MCK	127-18-4		
Toluene	ND	ug/l	5.0	02/22/07 12:26	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	02/22/07 12:26	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	02/22/07 12:26	MCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	02/22/07 12:26	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	02/22/07 12:26	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	02/22/07 12:26	MCK	96-18-4		
Vinyl acetate	ND	ug/l	10.	02/22/07 12:26	MCK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	02/22/07 12:26	MCK	75-01-4		
m&p-Xylene	ND	ug/l	10.	02/22/07 12:26	MCK			
o-Xylene	ND	ug/l	5.0	02/22/07 12:26	MCK	95-47-6		
Toluene-d8 (S)	99	%		02/22/07 12:26	MCK	2037-26-5		
4-Bromofluorobenzene (S)	100	%		02/22/07 12:26	MCK	460-00-4		
Dibromofluoromethane (S)	99	%		02/22/07 12:26	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		02/22/07 12:26	MCK	17060-07-0		

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate
[1]	Oxygen usage is less than 2.0 mg/L for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QC Batch: 181027 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 928001304 928001312 928001320

METHOD BLANK: 928029131
Associated Lab Samples: 928001304 928001312 928001320

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/l	ND	25.	
Acrylonitrile	ug/l	ND	25.	
Benzene	ug/l	ND	5.0	
Bromochloromethane	ug/l	ND	5.0	
Bromodichloromethane	ug/l	ND	5.0	
Bromoform	ug/l	ND	5.0	
Bromomethane	ug/l	ND	5.0	
2-Butanone (MEK)	ug/l	ND	10.	
Carbon disulfide	ug/l	ND	10.	
Carbon tetrachloride	ug/l	ND	5.0	
Chlorobenzene	ug/l	ND	5.0	
Chloroethane	ug/l	ND	10.	
Chloroform	ug/l	ND	5.0	
Chloromethane	ug/l	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	5.0	
Dibromochloromethane	ug/l	ND	5.0	
1,2-Dibromoethane (EDB)	ug/l	ND	5.0	
Dibromomethane	ug/l	ND	5.0	
1,2-Dichlorobenzene	ug/l	ND	5.0	
1,4-Dichlorobenzene	ug/l	ND	5.0	
trans-1,4-Dichloro-2-butene	ug/l	ND	5.0	
1,1-Dichloroethane	ug/l	ND	5.0	
1,2-Dichloroethane	ug/l	ND	5.0	
1,1-Dichloroethene	ug/l	ND	5.0	
cis-1,2-Dichloroethene	ug/l	ND	5.0	
trans-1,2-Dichloroethene	ug/l	ND	5.0	
1,2-Dichloropropane	ug/l	ND	5.0	
cis-1,3-Dichloropropene	ug/l	ND	5.0	
trans-1,3-Dichloropropene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
2-Hexanone	ug/l	ND	10.	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

METHOD BLANK: 928029131
Associated Lab Samples: 928001304 928001312 928001320

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Iodomethane	ug/l	ND	10.	
Methylene chloride	ug/l	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/l	ND	10.	
Styrene	ug/l	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	5.0	
Tetrachloroethene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
1,1,1-Trichloroethane	ug/l	ND	5.0	
1,1,2-Trichloroethane	ug/l	ND	5.0	
Trichloroethene	ug/l	ND	5.0	
Trichlorofluoromethane	ug/l	ND	10.	
1,2,3-Trichloropropane	ug/l	ND	5.0	
Vinyl acetate	ug/l	ND	10.	
Vinyl chloride	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	96		
4-Bromofluorobenzene (S)	%	92		
Dibromofluoromethane (S)	%	95		
1,2-Dichloroethane-d4 (S)	%	105		

LABORATORY CONTROL SAMPLE: 928029149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Acetone	ug/l	100.00	82.58	83	
Acrylonitrile	ug/l	250.00	244.5	98	
Benzene	ug/l	50.00	56.86	114	
Bromochloromethane	ug/l	50.00	50.62	101	
Bromodichloromethane	ug/l	50.00	51.60	103	
Bromoform	ug/l	50.00	53.82	108	
Bromomethane	ug/l	50.00	82.24	164	1
2-Butanone (MEK)	ug/l	100.00	68.18	68	
Carbon disulfide	ug/l	50.00	56.26	113	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

LABORATORY CONTROL SAMPLE: 928029149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Carbon tetrachloride	ug/l	50.00	58.01	116	
Chlorobenzene	ug/l	50.00	56.56	113	
Chloroethane	ug/l	50.00	59.57	119	
Chloroform	ug/l	50.00	57.77	116	
Chloromethane	ug/l	50.00	48.38	97	
1,2-Dibromo-3-chloropropane	ug/l	50.00	64.59	129	1
Dibromochloromethane	ug/l	50.00	50.90	102	
1,2-Dibromoethane (EDB)	ug/l	50.00	52.08	104	
Dibromomethane	ug/l	50.00	51.12	102	
1,2-Dichlorobenzene	ug/l	50.00	59.29	119	
1,4-Dichlorobenzene	ug/l	50.00	58.76	118	
trans-1,4-Dichloro-2-butene	ug/l	50.00	57.03	114	
1,1-Dichloroethane	ug/l	50.00	57.06	114	
1,2-Dichloroethane	ug/l	50.00	57.39	115	
1,1-Dichloroethene	ug/l	50.00	62.09	124	
cis-1,2-Dichloroethene	ug/l	50.00	56.53	113	
trans-1,2-Dichloroethene	ug/l	50.00	56.57	113	
1,2-Dichloropropane	ug/l	50.00	53.88	108	
cis-1,3-Dichloropropene	ug/l	50.00	50.87	102	
trans-1,3-Dichloropropene	ug/l	50.00	52.11	104	
Ethylbenzene	ug/l	50.00	58.10	116	
2-Hexanone	ug/l	100.00	106.5	107	
Iodomethane	ug/l	100.00	104.8	105	
Methylene chloride	ug/l	50.00	56.13	112	
4-Methyl-2-pentanone (MIBK)	ug/l	100.00	96.96	97	
Styrene	ug/l	50.00	51.10	102	
1,1,1,2-Tetrachloroethane	ug/l	50.00	52.75	106	
1,1,2,2-Tetrachloroethane	ug/l	50.00	55.02	110	
Tetrachloroethene	ug/l	50.00	54.78	110	
Toluene	ug/l	50.00	54.67	109	
1,1,1-Trichloroethane	ug/l	50.00	58.88	118	
1,1,2-Trichloroethane	ug/l	50.00	52.46	105	
Trichloroethene	ug/l	50.00	53.47	107	
Trichlorofluoromethane	ug/l	50.00	61.55	123	
1,2,3-Trichloropropane	ug/l	50.00	54.92	110	
Vinyl acetate	ug/l	100.00	147.5	147	
Vinyl chloride	ug/l	50.00	49.71	99	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

LABORATORY CONTROL SAMPLE: 928029149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
m&p-Xylene	ug/l	100.00	113.6	114	
o-Xylene	ug/l	50.00	55.79	112	
Toluene-d8 (S)				96	
4-Bromofluorobenzene (S)				95	
Dibromofluoromethane (S)				97	
1,2-Dichloroethane-d4 (S)				102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928029156 928029164

Parameter	Units	928001270 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Benzene	ug/l	0	50.00	53.87	54.10	108	108	0	
Chlorobenzene	ug/l	0	50.00	57.33	54.49	115	109	5	
1,1-Dichloroethene	ug/l	0	50.00	61.43	55.63	123	111	10	
Toluene	ug/l	0	50.00	52.54	50.71	105	101	4	
Trichloroethene	ug/l	0	50.00	52.08	50.47	104	101	3	
Toluene-d8 (S)						92	94		
4-Bromofluorobenzene (S)						88	90		
Dibromofluoromethane (S)						94	98		
1,2-Dichloroethane-d4 (S)						102	105		

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QC Batch: 181185 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 928018092 928018100 928018118 928018126 928018134 928018159 928018167 928018423 928018456

METHOD BLANK: 928037894
Associated Lab Samples: 928018092 928018100 928018118 928018126 928018134 928018159 928018167 928018423 928018456

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/l	ND	25.	
Acrylonitrile	ug/l	ND	25.	
Benzene	ug/l	ND	5.0	
Bromochloromethane	ug/l	ND	5.0	
Bromodichloromethane	ug/l	ND	5.0	
Bromoform	ug/l	ND	5.0	
Bromomethane	ug/l	ND	5.0	
2-Butanone (MEK)	ug/l	ND	10.	
Carbon disulfide	ug/l	ND	10.	
Carbon tetrachloride	ug/l	ND	5.0	
Chlorobenzene	ug/l	ND	5.0	
Chloroethane	ug/l	ND	10.	
Chloroform	ug/l	ND	5.0	
Chloromethane	ug/l	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	5.0	
Dibromochloromethane	ug/l	ND	5.0	
1,2-Dibromoethane (EDB)	ug/l	ND	5.0	
Dibromomethane	ug/l	ND	5.0	
1,2-Dichlorobenzene	ug/l	ND	5.0	
1,4-Dichlorobenzene	ug/l	ND	5.0	
trans-1,4-Dichloro-2-butene	ug/l	ND	5.0	
1,1-Dichloroethane	ug/l	ND	5.0	
1,2-Dichloroethane	ug/l	ND	5.0	
1,1-Dichloroethene	ug/l	ND	5.0	
cis-1,2-Dichloroethene	ug/l	ND	5.0	
trans-1,2-Dichloroethene	ug/l	ND	5.0	
1,2-Dichloropropane	ug/l	ND	5.0	
cis-1,3-Dichloropropene	ug/l	ND	5.0	
trans-1,3-Dichloropropene	ug/l	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

METHOD BLANK: 928037894
Associated Lab Samples: 928018092 928018100 928018118 928018126 928018134 928018159 928018167 928018423 928018456

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Ethylbenzene	ug/l	ND	5.0	
2-Hexanone	ug/l	ND	10.	
Iodomethane	ug/l	ND	10.	
Methylene chloride	ug/l	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/l	ND	10.	
Styrene	ug/l	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	5.0	
Tetrachloroethene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
1,1,1-Trichloroethane	ug/l	ND	5.0	
1,1,2-Trichloroethane	ug/l	ND	5.0	
Trichloroethene	ug/l	ND	5.0	
Trichlorofluoromethane	ug/l	ND	10.	
1,2,3-Trichloropropane	ug/l	ND	5.0	
Vinyl acetate	ug/l	ND	10.	
Vinyl chloride	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	99		
4-Bromofluorobenzene (S)	%	98		
Dibromofluoromethane (S)	%	99		
1,2-Dichloroethane-d4 (S)	%	102		

LABORATORY CONTROL SAMPLE: 928037902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Acetone	ug/l	100.00	91.28	91	
Acrylonitrile	ug/l	250.00	225.5	90	
Benzene	ug/l	50.00	47.73	96	
Bromochloromethane	ug/l	50.00	44.59	89	
Bromodichloromethane	ug/l	50.00	45.87	92	
Bromoform	ug/l	50.00	44.65	89	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

LABORATORY CONTROL SAMPLE: 928037902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Bromomethane	ug/l	50.00	46.33	93	
2-Butanone (MEK)	ug/l	100.00	86.30	86	
Carbon disulfide	ug/l	50.00	51.91	104	
Carbon tetrachloride	ug/l	50.00	50.19	100	
Chlorobenzene	ug/l	50.00	45.80	92	
Chloroethane	ug/l	50.00	46.18	92	
Chloroform	ug/l	50.00	47.73	96	
Chloromethane	ug/l	50.00	43.26	86	
1,2-Dibromo-3-chloropropane	ug/l	50.00	41.33	83	
Dibromochloromethane	ug/l	50.00	43.76	88	
1,2-Dibromoethane (EDB)	ug/l	50.00	44.01	88	
Dibromomethane	ug/l	50.00	45.86	92	
1,2-Dichlorobenzene	ug/l	50.00	44.64	89	
1,4-Dichlorobenzene	ug/l	50.00	44.44	89	
trans-1,4-Dichloro-2-butene	ug/l	50.00	42.79	86	
1,1-Dichloroethane	ug/l	50.00	47.60	95	
1,2-Dichloroethane	ug/l	50.00	45.06	90	
1,1-Dichloroethene	ug/l	50.00	53.39	107	
cis-1,2-Dichloroethene	ug/l	50.00	48.74	98	
trans-1,2-Dichloroethene	ug/l	50.00	50.39	101	
1,2-Dichloropropane	ug/l	50.00	46.80	94	
cis-1,3-Dichloropropene	ug/l	50.00	45.88	92	
trans-1,3-Dichloropropene	ug/l	50.00	45.43	91	
Ethylbenzene	ug/l	50.00	46.08	92	
2-Hexanone	ug/l	100.00	88.60	89	
Iodomethane	ug/l	100.00	93.24	93	
Methylene chloride	ug/l	50.00	46.01	92	
4-Methyl-2-pentanone (MIBK)	ug/l	100.00	90.53	90	
Styrene	ug/l	50.00	46.58	93	
1,1,1,2-Tetrachloroethane	ug/l	50.00	44.52	89	
1,1,2,2-Tetrachloroethane	ug/l	50.00	41.64	83	
Tetrachloroethene	ug/l	50.00	45.63	91	
Toluene	ug/l	50.00	46.53	93	
1,1,1-Trichloroethane	ug/l	50.00	48.39	97	
1,1,2-Trichloroethane	ug/l	50.00	44.64	89	
Trichloroethene	ug/l	50.00	46.84	94	
Trichlorofluoromethane	ug/l	50.00	49.91	100	

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Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

LABORATORY CONTROL SAMPLE: 928037902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
1,2,3-Trichloropropane	ug/l	50.00	41.25	82	
Vinyl acetate	ug/l	100.00	100.7	101	
Vinyl chloride	ug/l	50.00	46.57	93	
m&p-Xylene	ug/l	100.00	92.49	92	
o-Xylene	ug/l	50.00	44.69	89	
Toluene-d8 (S)				101	
4-Bromofluorobenzene (S)				101	
Dibromofluoromethane (S)				101	
1,2-Dichloroethane-d4 (S)				103	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928039775 928039783

Parameter	Units	928018092 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Benzene	ug/l	0	50.00	43.37	55.90	87	112	25	
Chlorobenzene	ug/l	0	50.00	43.41	57.28	87	115	28	
1,1-Dichloroethene	ug/l	0	50.00	45.43	58.77	91	118	26	
Toluene	ug/l	4.437	50.00	42.78	55.97	77	103	27	
Trichloroethene	ug/l	0	50.00	42.53	55.74	85	112	27	
Toluene-d8 (S)						99	98		
4-Bromofluorobenzene (S)						99	100		
Dibromofluoromethane (S)						98	99		
1,2-Dichloroethane-d4 (S)						102	102		

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QC Batch: 181204 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 928018183

METHOD BLANK: 928038280
Associated Lab Samples: 928018183

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	99		
4-Bromofluorobenzene (S)	%	101		
Dibromofluoromethane (S)	%	100		
1,2-Dichloroethane-d4 (S)	%	101		

LABORATORY CONTROL SAMPLE: 928038298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Acetone	ug/l	100.00	102.2	102	
Acrylonitrile	ug/l	250.00	230.2	92	
Benzene	ug/l	50.00	50.53	101	
Bromochloromethane	ug/l	50.00	46.52	93	
Bromodichloromethane	ug/l	50.00	48.47	97	
Bromoform	ug/l	50.00	46.88	94	
Bromomethane	ug/l	50.00	47.41	95	
2-Butanone (MEK)	ug/l	100.00	91.24	91	
Carbon disulfide	ug/l	50.00	54.52	109	
Carbon tetrachloride	ug/l	50.00	53.68	107	
Chlorobenzene	ug/l	50.00	49.01	98	
Chloroethane	ug/l	50.00	49.06	98	
Chloroform	ug/l	50.00	50.62	101	
Chloromethane	ug/l	50.00	47.48	95	
1,2-Dibromo-3-chloropropane	ug/l	50.00	45.81	92	
Dibromochloromethane	ug/l	50.00	46.99	94	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

LABORATORY CONTROL SAMPLE: 928038298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
1,2-Dibromoethane (EDB)	ug/l	50.00	46.68	93	
Dibromomethane	ug/l	50.00	48.30	97	
1,2-Dichlorobenzene	ug/l	50.00	46.72	93	
1,4-Dichlorobenzene	ug/l	50.00	46.50	93	
trans-1,4-Dichloro-2-butene	ug/l	50.00	45.15	90	
1,1-Dichloroethane	ug/l	50.00	50.71	101	
1,2-Dichloroethane	ug/l	50.00	46.86	94	
1,1-Dichloroethene	ug/l	50.00	56.22	112	
cis-1,2-Dichloroethene	ug/l	50.00	52.20	104	
trans-1,2-Dichloroethene	ug/l	50.00	52.59	105	
1,2-Dichloropropane	ug/l	50.00	49.81	100	
cis-1,3-Dichloropropene	ug/l	50.00	48.12	96	
trans-1,3-Dichloropropene	ug/l	50.00	48.17	96	
Ethylbenzene	ug/l	50.00	49.03	98	
2-Hexanone	ug/l	100.00	95.22	95	
Iodomethane	ug/l	100.00	93.23	93	
Methylene chloride	ug/l	50.00	48.94	98	
4-Methyl-2-pentanone (MIBK)	ug/l	100.00	94.57	95	
Styrene	ug/l	50.00	50.23	100	
1,1,1,2-Tetrachloroethane	ug/l	50.00	48.02	96	
1,1,2,2-Tetrachloroethane	ug/l	50.00	43.49	87	
Tetrachloroethene	ug/l	50.00	48.64	97	
Toluene	ug/l	50.00	49.76	100	
1,1,1-Trichloroethane	ug/l	50.00	51.18	102	
1,1,2-Trichloroethane	ug/l	50.00	47.80	96	
Trichloroethene	ug/l	50.00	50.17	100	
Trichlorofluoromethane	ug/l	50.00	52.53	105	
1,2,3-Trichloropropane	ug/l	50.00	45.41	91	
Vinyl acetate	ug/l	100.00	102.8	103	
Vinyl chloride	ug/l	50.00	50.03	100	
m&p-Xylene	ug/l	100.00	99.07	99	
o-Xylene	ug/l	50.00	48.53	97	
Toluene-d8 (S)				101	
4-Bromofluorobenzene (S)				98	
Dibromofluoromethane (S)				101	
1,2-Dichloroethane-d4 (S)				102	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QC Batch: 181406 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 928018191 928018209 928018332

METHOD BLANK: 928045095
Associated Lab Samples: 928018191 928018209 928018332

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/l	ND	25.	
Acrylonitrile	ug/l	ND	25.	
Benzene	ug/l	ND	5.0	
Bromochloromethane	ug/l	ND	5.0	
Bromodichloromethane	ug/l	ND	5.0	
Bromoform	ug/l	ND	5.0	
Bromomethane	ug/l	ND	5.0	
2-Butanone (MEK)	ug/l	ND	10.	
Carbon disulfide	ug/l	ND	10.	
Carbon tetrachloride	ug/l	ND	5.0	
Chlorobenzene	ug/l	ND	5.0	
Chloroethane	ug/l	ND	10.	
Chloroform	ug/l	ND	5.0	
Chloromethane	ug/l	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	5.0	
Dibromochloromethane	ug/l	ND	5.0	
1,2-Dibromoethane (EDB)	ug/l	ND	5.0	
Dibromomethane	ug/l	ND	5.0	
1,2-Dichlorobenzene	ug/l	ND	5.0	
1,4-Dichlorobenzene	ug/l	ND	5.0	
trans-1,4-Dichloro-2-butene	ug/l	ND	5.0	
1,1-Dichloroethane	ug/l	ND	5.0	
1,2-Dichloroethane	ug/l	ND	5.0	
1,1-Dichloroethene	ug/l	ND	5.0	
cis-1,2-Dichloroethene	ug/l	ND	5.0	
trans-1,2-Dichloroethene	ug/l	ND	5.0	
1,2-Dichloropropane	ug/l	ND	5.0	
cis-1,3-Dichloropropene	ug/l	ND	5.0	
trans-1,3-Dichloropropene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
2-Hexanone	ug/l	ND	10.	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

METHOD BLANK: 928045095
Associated Lab Samples: 928018191 928018209 928018332

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Iodomethane	ug/l	ND	10.	
Methylene chloride	ug/l	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/l	ND	10.	
Styrene	ug/l	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	5.0	
Tetrachloroethene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
1,1,1-Trichloroethane	ug/l	ND	5.0	
1,1,2-Trichloroethane	ug/l	ND	5.0	
Trichloroethene	ug/l	ND	5.0	
Trichlorofluoromethane	ug/l	ND	10.	
1,2,3-Trichloropropane	ug/l	ND	5.0	
Vinyl acetate	ug/l	ND	10.	
Vinyl chloride	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	101		
Dibromofluoromethane (S)	%	97		
1,2-Dichloroethane-d4 (S)	%	100		

LABORATORY CONTROL SAMPLE: 928045103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Acetone	ug/l	100.00	111.9	112	
Acrylonitrile	ug/l	250.00	275.3	110	
Benzene	ug/l	50.00	57.32	115	
Bromochloromethane	ug/l	50.00	55.00	110	
Bromodichloromethane	ug/l	50.00	57.47	115	
Bromoform	ug/l	50.00	52.92	106	
Bromomethane	ug/l	50.00	54.17	108	
2-Butanone (MEK)	ug/l	100.00	100.0	100	
Carbon disulfide	ug/l	50.00	63.40	127	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

LABORATORY CONTROL SAMPLE: 928045103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Carbon tetrachloride	ug/l	50.00	62.47	125	
Chlorobenzene	ug/l	50.00	55.33	111	
Chloroethane	ug/l	50.00	57.40	115	
Chloroform	ug/l	50.00	58.72	117	
Chloromethane	ug/l	50.00	52.32	105	
1,2-Dibromo-3-chloropropane	ug/l	50.00	45.37	91	
Dibromochloromethane	ug/l	50.00	54.54	109	
1,2-Dibromoethane (EDB)	ug/l	50.00	53.88	108	
Dibromomethane	ug/l	50.00	56.40	113	
1,2-Dichlorobenzene	ug/l	50.00	53.11	106	
1,4-Dichlorobenzene	ug/l	50.00	52.90	106	
trans-1,4-Dichloro-2-butene	ug/l	50.00	51.09	102	
1,1-Dichloroethane	ug/l	50.00	58.03	116	
1,2-Dichloroethane	ug/l	50.00	56.31	113	
1,1-Dichloroethene	ug/l	50.00	64.91	130	
cis-1,2-Dichloroethene	ug/l	50.00	59.57	119	
trans-1,2-Dichloroethene	ug/l	50.00	61.61	123	
1,2-Dichloropropane	ug/l	50.00	58.20	116	
cis-1,3-Dichloropropene	ug/l	50.00	55.48	111	
trans-1,3-Dichloropropene	ug/l	50.00	56.30	113	
Ethylbenzene	ug/l	50.00	55.70	111	
2-Hexanone	ug/l	100.00	109.8	110	
Iodomethane	ug/l	100.00	116.0	116	
Methylene chloride	ug/l	50.00	57.57	115	
4-Methyl-2-pentanone (MIBK)	ug/l	100.00	111.4	111	
Styrene	ug/l	50.00	57.23	114	
1,1,1,2-Tetrachloroethane	ug/l	50.00	55.36	111	
1,1,2,2-Tetrachloroethane	ug/l	50.00	51.41	103	
Tetrachloroethene	ug/l	50.00	55.38	111	
Toluene	ug/l	50.00	56.48	113	
1,1,1-Trichloroethane	ug/l	50.00	59.83	120	
1,1,2-Trichloroethane	ug/l	50.00	55.60	111	
Trichloroethene	ug/l	50.00	57.18	114	
Trichlorofluoromethane	ug/l	50.00	61.92	124	
1,2,3-Trichloropropane	ug/l	50.00	54.31	109	
Vinyl acetate	ug/l	100.00	124.1	124	
Vinyl chloride	ug/l	50.00	53.96	108	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

LABORATORY CONTROL SAMPLE: 928045103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
m&p-Xylene	ug/l	100.00	111.3	111	
o-Xylene	ug/l	50.00	54.32	109	
Toluene-d8 (S)				100	
4-Bromofluorobenzene (S)				100	
Dibromofluoromethane (S)				103	
1,2-Dichloroethane-d4 (S)				105	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928049790 928049808

Parameter	Units	928018191 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Benzene	ug/l	1.699	50.00	53.50	53.25	104	103	0	
Chlorobenzene	ug/l	0	50.00	52.64	53.06	105	106	1	
1,1-Dichloroethene	ug/l	0	50.00	62.91	64.10	126	128	2	
Toluene	ug/l	0	50.00	50.55	51.00	101	102	1	
Trichloroethene	ug/l	0	50.00	52.31	53.16	105	106	2	
Toluene-d8 (S)						101	100		
4-Bromofluorobenzene (S)						101	101		
Dibromofluoromethane (S)						98	99		
1,2-Dichloroethane-d4 (S)						104	104		

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QC Batch: 180680 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Metals by Trace ICP
Associated Lab Samples: 928001304 928001312 928001320

METHOD BLANK: 928012053
Associated Lab Samples: 928001304 928001312 928001320

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	ug/l	ND	5.0	
Arsenic	ug/l	ND	5.0	
Barium	ug/l	ND	5.0	
Beryllium	ug/l	ND	1.0	
Cadmium	ug/l	ND	1.0	
Chromium	ug/l	ND	5.0	
Cobalt	ug/l	ND	5.0	
Copper	ug/l	ND	5.0	
Lead	ug/l	ND	5.0	
Nickel	ug/l	ND	5.0	
Selenium	ug/l	ND	10.	
Silver	ug/l	ND	5.0	
Thallium	ug/l	ND	10.	
Tin	ug/l	ND	5.0	
Vanadium	ug/l	ND	5.0	
Zinc	ug/l	ND	10.	

LABORATORY CONTROL SAMPLE: 928012061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Antimony	ug/l	500.00	487.0	97	
Arsenic	ug/l	500.00	467.0	93	
Barium	ug/l	500.00	477.0	95	
Beryllium	ug/l	500.00	469.0	94	
Cadmium	ug/l	500.00	471.0	94	
Chromium	ug/l	500.00	481.0	96	
Cobalt	ug/l	500.00	477.0	95	
Copper	ug/l	500.00	488.0	98	
Lead	ug/l	500.00	480.0	96	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

LABORATORY CONTROL SAMPLE: 928012061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Nickel	ug/l	500.00	476.0	95	
Selenium	ug/l	500.00	472.0	94	
Silver	ug/l	250.00	243.0	97	
Thallium	ug/l	500.00	435.0	87	
Tin	ug/l	500.00	488.0	98	
Vanadium	ug/l	500.00	479.0	96	
Zinc	ug/l	500.00	485.0	97	

MATRIX SPIKE: 928012079

Parameter	Units	927994632 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Antimony	ug/l	0.7310	500.00	469.0	94	
Arsenic	ug/l	1.540	500.00	457.0	91	
Barium	ug/l	21.00	500.00	455.0	87	
Beryllium	ug/l	0.09900	500.00	449.0	90	
Cadmium	ug/l	0	500.00	445.0	89	
Chromium	ug/l	11.60	500.00	464.0	90	
Cobalt	ug/l	0.9530	500.00	441.0	88	
Copper	ug/l	13.50	500.00	480.0	93	
Lead	ug/l	6.550	500.00	448.0	88	
Nickel	ug/l	3.810	500.00	441.0	87	
Selenium	ug/l	0	500.00	472.0	94	
Silver	ug/l	0.6760	250.00	231.0	92	
Thallium	ug/l	0.6180	500.00	400.0	80	
Tin	ug/l	0	500.00	461.0	92	
Vanadium	ug/l	2.460	500.00	457.0	91	
Zinc	ug/l	34.90	500.00	493.0	92	

SAMPLE DUPLICATE: 928012103

Parameter	Units	928001007 Result	DUP Result	RPD	Footnotes
Antimony	mg/l	ND	ND	NC	
Arsenic	mg/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

SAMPLE DUPLICATE: 928012103

Parameter	Units	928001007 Result	DUP Result	RPD	Footnotes
Barium	mg/l	ND	ND	NC	
Beryllium	mg/l	ND	ND	NC	
Cadmium	mg/l	ND	ND	NC	
Chromium	mg/l	ND	ND	NC	
Cobalt	mg/l	ND	ND	NC	
Copper	mg/l	ND	ND	NC	
Lead	mg/l	ND	ND	NC	
Nickel	mg/l	ND	ND	NC	
Selenium	mg/l	ND	ND	NC	
Silver	mg/l	ND	ND	NC	
Thallium	mg/l	ND	ND	NC	
Vanadium	mg/l	ND	ND	NC	
Zinc	mg/l	ND	ND	NC	
Tin	ug/l		ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QC Batch: 180966 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Metals by Trace ICP
Associated Lab Samples: 928018092 928018100 928018456

METHOD BLANK: 928025881
Associated Lab Samples: 928018092 928018100 928018456

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	ug/l	ND	5.0	
Arsenic	ug/l	ND	5.0	
Barium	ug/l	ND	5.0	
Beryllium	ug/l	ND	1.0	
Cadmium	ug/l	ND	1.0	
Chromium	ug/l	ND	5.0	
Cobalt	ug/l	ND	5.0	
Copper	ug/l	ND	2.0	
Lead	ug/l	ND	5.0	
Nickel	ug/l	ND	5.0	
Selenium	ug/l	ND	10.	
Silver	ug/l	ND	5.0	
Thallium	ug/l	ND	10.	
Vanadium	ug/l	ND	5.0	
Zinc	ug/l	ND	10.	

LABORATORY CONTROL SAMPLE: 928025899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Antimony	ug/l	500.00	499.0	100	
Arsenic	ug/l	500.00	494.0	99	
Barium	ug/l	500.00	478.0	96	
Beryllium	ug/l	500.00	506.0	101	
Cadmium	ug/l	500.00	500.0	100	
Chromium	ug/l	500.00	515.0	103	
Cobalt	ug/l	500.00	496.0	99	
Copper	ug/l	500.00	474.0	95	
Lead	ug/l	500.00	501.0	100	
Nickel	ug/l	500.00	509.0	102	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

LABORATORY CONTROL SAMPLE: 928025899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Selenium	ug/l	500.00	490.0	98	
Silver	ug/l	250.00	249.0	100	
Thallium	ug/l	500.00	474.0	95	
Vanadium	ug/l	500.00	494.0	99	
Zinc	ug/l	500.00	462.0	92	

MATRIX SPIKE: 928025907

Parameter	Units	928018829 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Antimony	ug/l	0	500.00	510.0	102	
Arsenic	ug/l	0.4170	500.00	511.0	102	
Barium	ug/l	421.0	500.00	898.0	95	
Beryllium	ug/l	0.4590	500.00	518.0	104	
Cadmium	ug/l	0	500.00	506.0	101	
Chromium	ug/l	6.740	500.00	525.0	104	
Cobalt	ug/l	20.70	500.00	518.0	100	
Copper	ug/l	0	500.00	488.0	98	
Lead	ug/l	26.20	500.00	533.0	101	
Nickel	ug/l	4.270	500.00	510.0	101	
Selenium	ug/l	0.8880	500.00	508.0	101	
Silver	ug/l	0.5530	250.00	253.0	101	
Thallium	ug/l	0.3520	500.00	480.0	96	
Vanadium	ug/l	1.040	500.00	508.0	101	
Zinc	ug/l	0	500.00	478.0	96	

SAMPLE DUPLICATE: 928025915

Parameter	Units	928018837 Result	DUP Result	RPD	Footnotes
Antimony	ug/l	1.200	22.00	0	
Arsenic	ug/l	2.200	7.900	0	
Barium	ug/l	54.00	54.00	0	
Beryllium	ug/l	0.2400	0.3000	0	
Cadmium	ug/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

SAMPLE DUPLICATE: 928025915

Parameter	Units	928018837 Result	DUP Result	RPD	Footnotes
Chromium	ug/l	0.5800	4800	0	
Cobalt	ug/l	ND	6.300	0	
Copper	ug/l	ND	37.00	0	
Lead	ug/l	ND	25.00	0	
Nickel	ug/l	0.6700	1500	0	
Selenium	ug/l	2.000	ND	NC	
Silver	ug/l	0.06000	ND	NC	
Thallium	ug/l	ND	2.700	0	
Vanadium	ug/l	0.9800	17.00	0	
Zinc	ug/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QC Batch: 181076 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Metals by Trace ICP
Associated Lab Samples: 928018118 928018126 928018134 928018159 928018167 928018183 928018191 928018209

LABORATORY CONTROL SAMPLE: 928034990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Antimony	ug/l	500.00	509.0	102	
Arsenic	ug/l	500.00	520.0	104	
Barium	ug/l	500.00	467.0	93	
Beryllium	ug/l	500.00	516.0	103	
Cadmium	ug/l	500.00	511.0	102	
Chromium	ug/l	500.00	509.0	102	
Cobalt	ug/l	500.00	493.0	99	
Copper	ug/l	500.00	475.0	95	
Lead	ug/l	500.00	495.0	99	
Nickel	ug/l	500.00	506.0	101	
Selenium	ug/l	500.00	508.0	102	
Silver	ug/l	250.00	250.0	100	
Thallium	ug/l	500.00	471.0	94	
Vanadium	ug/l	500.00	493.0	99	
Zinc	ug/l	500.00	518.0	104	

MATRIX SPIKE: 928035005

Parameter	Units	928018118 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Antimony	ug/l	0	500.00	511.0	102	
Arsenic	ug/l	0	500.00	526.0	105	
Barium	ug/l	38.70	500.00	517.0	96	
Beryllium	ug/l	0.3210	500.00	526.0	105	
Cadmium	ug/l	0	500.00	510.0	102	
Chromium	ug/l	3.210	500.00	518.0	103	
Cobalt	ug/l	5.220	500.00	503.0	100	
Copper	ug/l	0.4500	500.00	488.0	98	
Lead	ug/l	0.6290	500.00	503.0	100	
Nickel	ug/l	1.110	500.00	508.0	101	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

MATRIX SPIKE: 928035005

Parameter	Units	928018118 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Selenium	ug/l	0.07800	500.00	516.0	103	
Silver	ug/l	0	250.00	252.0	101	
Thallium	ug/l	0.1320	500.00	483.0	97	
Vanadium	ug/l	3.400	500.00	503.0	100	
Zinc	ug/l	7.190	500.00	534.0	105	

SAMPLE DUPLICATE: 928035013

Parameter	Units	928018126 Result	DUP Result	RPD	Footnotes
Antimony	mg/l	ND	ND	NC	
Arsenic	mg/l	ND	ND	NC	
Barium	mg/l	ND	ND	NC	
Beryllium	mg/l	ND	0.00230	0	
Cadmium	mg/l	ND	ND	NC	
Chromium	mg/l	0.03000	0.02800	4	
Cobalt	mg/l	0.01200	0.01200	6	
Copper	mg/l	ND	ND	NC	
Lead	mg/l	ND	ND	NC	
Nickel	mg/l	ND	ND	NC	
Selenium	mg/l	ND	ND	NC	
Silver	mg/l	ND	ND	NC	
Thallium	mg/l	ND	0.00600	0	
Vanadium	mg/l	ND	ND	NC	
Zinc	mg/l	0.07400	0.1300	52	2

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QC Batch: 180537 Analysis Method: EPA 405.1
QC Batch Method: SM 5210B Analysis Description: Biochemical Oxygen Demand, 5 d
Associated Lab Samples: 928001320

METHOD BLANK: 928004878
Associated Lab Samples: 928001320

Parameter	Units	Blank Result	Reporting Limit	Footnotes
BOD, 5 day	mg/l	ND	2.0	

LABORATORY CONTROL SAMPLE: 928004886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
BOD, 5 day	mg/l	198.00	170.0	86	

SAMPLE DUPLICATE: 928006246

Parameter	Units	928002666 Result	DUP Result	RPD	Footnotes
BOD, 5 day	mg/l	160.0	140.0	9	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QC Batch: 180765 Analysis Method: EPA 160.2
QC Batch Method: SM 2540D Analysis Description: Total Suspended Solids
Associated Lab Samples: 928001320

METHOD BLANK: 928015445
Associated Lab Samples: 928001320

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Total Suspended Solids	mg/l	ND	1.0	

LABORATORY CONTROL SAMPLE: 928015452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Total Suspended Solids	mg/l	250.00	234.0	94	

SAMPLE DUPLICATE: 928015460

Parameter	Units	927991646 Result	DUP Result	RPD	Footnotes
Total Suspended Solids	mg/l	96.00	100.0	7	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QC Batch: 181077 Analysis Method: EPA 375.4
QC Batch Method: EPA 375.4 Analysis Description: Sulfate,Turbidimetric
Associated Lab Samples: 928001320

METHOD BLANK: 928032275
Associated Lab Samples: 928001320

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Sulfate	mg/l	ND	5.0	

LABORATORY CONTROL SAMPLE: 928032283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Sulfate	mg/l	20.00	18.47	92	

MATRIX SPIKE: 928032291

Parameter	Units	928003466 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Sulfate	mg/l	6.250	20.00	21.64	77	

SAMPLE DUPLICATE: 928032309

Parameter	Units	928001320 Result	DUP Result	RPD	Footnotes
Sulfate	mg/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QC Batch: 181098 Analysis Method: EPA 365.2
QC Batch Method: SM 4500-P F Analysis Description: Phosphorus, Total
Associated Lab Samples: 928001320

METHOD BLANK: 928033240
Associated Lab Samples: 928001320

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Phosphorus	mg/l	ND	0.100	

LABORATORY CONTROL SAMPLE: 928033257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Phosphorus	mg/l	1.000	1.149	115	

MATRIX SPIKE: 928033265

Parameter	Units	928018910 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Phosphorus	mg/l	0.2730	1.000	1.096	82	

SAMPLE DUPLICATE: 928033273

Parameter	Units	928018928 Result	DUP Result	RPD	Footnotes
Phosphorus	mg/l	0.1970	0.1730	13	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QC Batch: 181347 Analysis Method: EPA 410.4
QC Batch Method: SM 5220D Analysis Description: Chemical Oxygen Demand
Associated Lab Samples: 928001320

METHOD BLANK: 928044130
Associated Lab Samples: 928001320

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Chemical Oxygen Demand	mg/l	ND	25.	

LABORATORY CONTROL SAMPLE: 928044148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Chemical Oxygen Demand	mg/l	750.00	760.0	101	

MATRIX SPIKE: 928044163

Parameter	Units	928013838 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Chemical Oxygen Demand	mg/l	67.00	750.00	820.0	100	

SAMPLE DUPLICATE: 928044155

Parameter	Units	928013838 Result	DUP Result	RPD	Footnotes
Chemical Oxygen Demand	mg/l	67.00	150.0	75	

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QUALITY CONTROL DATA

Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QC Batch: 181494 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 28 day NOX
Associated Lab Samples: 928001320

METHOD BLANK: 928052877
Associated Lab Samples: 928001320

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Nitrate-Nitrite (as N)	mg/l	ND	0.10	

LABORATORY CONTROL SAMPLE: 928052885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Nitrate-Nitrite (as N)	mg/l	5.000	5.360	107	

MATRIX SPIKE: 928052893

Parameter	Units	927975375 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Nitrate-Nitrite (as N)	mg/l	13.26	5.000	20.20	139	3

SAMPLE DUPLICATE: 928052901

Parameter	Units	928007707 Result	DUP Result	RPD	Footnotes
Nitrate-Nitrite (as N)	mg/l	15.00	15.00	2	
Nitrate as N	mg/l	ND	ND	NC	

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Lab Project Number: 92137924
Client Project ID: SUBTITLE D LF

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	Recovery falls outside of QC limits, however, this compound is not found in the associated samples.
[2]	The calculated RPD was outside QC acceptance limits.
[3]	The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

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