Wake County,
North Carolina

North Wake Unlined Landfill Facility Permit No. 92-09 Semi-Annual Sampling Report (October 2010 Sampling Event)

December 2010

Report

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Consultant - Camp Dresser & McKee

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

Name: Mathew F. Colone Phone: 919-787-5620

E-mail: colonemf@cdm.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Wake County North Wake Closed Landfill	9004 Deponie Drive Raleigh, NC 27615	92-09	.1600	October 25-27, 2010

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Mathew F. Colone — Facility Representative Name (Print)
Consultant — Title
(919) 787-5620 — (Area Code) Telephone Number

Signature
12/14/2010 — Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA GEOLOGIST 1851 MATTHEW F. COLONE

12/14/2010

5400 Glenwood Ave, Suite 300, Raleigh, NC 27612

Facility Representative Address

F-0412

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

CDM
5400 Glenwood Avenue, Suite 300
Raleigh, North Carolina 27612
tel: 919 787-5620
fax: 919 781-5730

December 14, 2010

Ms. Jaclynne Drummond
Division of Waste Management
Solid Waste Section
401 Oberlin Road
Suite 150
Raleigh, North Carolina 27605

Subject: October 2010 Semi-Annual Monitoring Sampling Report
North Wake Unlined Landfill
Facility Permit # - 9209

Dear Ms. Drummond:

CDM, on behalf of Wake County, is submitting one copy of the October 2010 semi-annual sampling event report. This letter report presents the results of the semi-annual sampling event that was recently completed at the North Wake Unlined Landfill and constitutes the second semi-annual sampling event for 2010.

The groundwater monitoring network consists of the following wells: MW-11 (shallow background well), MW-11d (deep background well), MW-5R, MW-6, MW-6d, MW-7, MW-8, MW-8d, MW-9, MW-10, MW-10d, MW-22, MW-23, MW-23d, MW-24, MW-28, MW-28d, MW-29d, MW-30, MW-31, MW-31d, MW-32, MW-33, MW-34, MW-34d, MW-35, MW-36, MW-36d, TB-1a, and TB-1a deep and surface water sampling locations SW-2, SW-3, SW-7, and SW-8. Monitoring wells MW-28, MW28d, MW-33, MW-34, MW-34d, and MW-35 are only sampled during the spring event.

MW-5R was sampled in place of MW-5 and is approximately 50 feet downgradient of MW-5. MW-5R was installed in the spring of 2004 at the request of the Solid Waste Section. MW-27 was abandoned while MW-36 and MW-36d were being installed on November 24 and 25, 2008. MW-36 and MW- 36d are a nested pair of monitoring wells installed down-gradient of MW-9 and triangulated with MW-6 and MW-6d. These wells were installed in order to determine if contaminants had migrated beyond the facility boundary. SW-7 and SW-8 are surface water sampling locations on Abbot's Creek along the northern edge of the landfill that have been sampled since November 2008.

All groundwater samples were analyzed for Appendix I Volatile Organic Compounds (VOCs) plus dichlorodifluoromethane and metals plus mercury. In addition, samples from monitoring wells MW-5R, -6, -8, -9, -10, -11, and -36 were analyzed for natural attenuation parameters per

the approved Corrective Action Plan. Sampling results plus the statistical analysis for all wells and surface water locations are discussed below.

Field Activities

Groundwater and surface water samples from the North Wake Unlined Landfill were collected from October 25-27, 2010. Groundwater samples were collected by use of a peristaltic pump or disposable, laboratory decontaminated Teflon™ bailers. Groundwater elevations were measured at each well prior to sampling and are presented in **Table 1**. These groundwater elevations were used to construct potentiometric contours for this sampling event and are presented on **Figure 1**. The groundwater elevations and potentiometric contours were used to estimate groundwater velocities at each well. Groundwater velocity values are presented in **Table 2**. After depth to groundwater was determined, three well volumes of water were removed from each well prior to sampling to provide fresh formation water within the well water column. Each well volume and surface water sample was measured in the field for pH, conductivity, temperature, turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP). The field parameters at the time of sampling are shown in **Table 1**.

Sampling Results

All groundwater and surface water samples were analyzed by ENCO Laboratories, Inc. in Cary, North Carolina for the North Carolina Appendix I metals plus mercury and Appendix I VOCs plus dichlorodifluoromethane. Select wells (MW-5R, -6, -8, -9, -10, -11, and -36) were also sampled for the following monitored natural attenuation (MNA) parameters: biochemical oxygen demand, chemical oxygen demand, alkalinity, nitrate, chloride, sulfate, sulfide, total organic carbon, carbon dioxide, methane, ethane, ethene, ferrous iron, volatile fatty acids, dissolved oxygen, and oxidation/reduction potential. Wells MW-5R, MW-6, and MW-8 were also analyzed for dissolved hydrogen.

In accordance with Solid Waste Section (SWS) guidelines the analytical results were reported to the laboratory specific method detection limit (MDL) and are quantifiable at or below Solid Waste Section Limits (SWSLs). All monitoring wells and surface water locations for the Unlined Landfill had detections of analytes above the MDL with a majority of the detections below SWSLs. These detections were qualified as estimated or "J" flags.

The following list summarizes which analytes were detected above the SWSL at each sample location. Underlined analytes exceeded the North Carolina 2L Standard (2L), Groundwater Protection Standard, or the North Carolina Surface Water Standards for Class C Waters (2B).

No "J" value detections are listed. A complete summary of all detected and estimated concentrations for this and previous events is presented on **Table 3**. Copies of the laboratory reports are provided in **Appendix A**.

MW-11 (Shallow Background)

Metals:	Barium, Copper, Zinc
Volatile Organic Compounds:	None Detected

MW-11d (Deep Background)

Metals:	None Detected
Volatile Organic Compounds:	None Detected

MW-5R

Metals:	Cadmium, Lead, Silver, Zinc
Volatile Organic Compounds:	p-Dichlorobenzene

MW-6

Metals:	Barium, Cadmium, Cobalt, Zinc
Volatile Organic Compounds:	Benzene, p-Dichlorobenzene

MW-6d

Metals:	Zinc
Volatile Organic Compounds:	1,1-Dichloroethane, Trichloroethene, Trichlorofluoromethane

MW-7

Metals:	Cadmium, Cobalt, Copper, Zinc
Volatile Organic Compounds:	Benzene, p-Dichlorobenzene, Vinyl Chloride

MW-8

Metals:	Zinc
Volatile Organic Compounds:	cis-1,2-Dichloroethene

MW-8d

Metals:	Zinc
Volatile Organic Compounds:	None Detected

MW-9

Metals:	Barium, Zinc
Volatile Organic Compounds:	Benzene, p-Dichlorobenzene, 1,1-Dichloroethane, 1,2-Dichloroethane, cis-1,2-Dichloroethane, 1,2-Dichloropropane, Vinyl Chloride

MW-10

Metals:	Mercury, Zinc
Volatile Organic Compounds:	Benzene, cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene, Vinyl Chloride

MW-10d

Metals:	None Detected
Volatile Organic Compounds:	Tetrachloroethene

MW-22

Metals:	Cadmium, Cobalt, Zinc
Volatile Organic Compounds:	None Detected

MW-23

Metals:	Copper, Zinc
Volatile Organic Compounds:	None Detected

MW-23d

Metals:	None Detected
Volatile Organic Compounds:	None Detected

MW-24

Metals:	Zinc
Volatile Organic Compounds:	Chloroform

MW-28

Metals:	Not Tested
Volatile Organic Compounds:	Not Tested

MW-28d

Metals:	Not Tested
Volatile Organic Compounds:	Not Tested

MW-29d

Metals:	Zinc
Volatile Organic Compounds:	None Detected

MW-30

Metals:	Barium, Chromium, Copper, Vanadium, Zinc
Volatile Organic Compounds:	None Detected

MW-31

Metals:	Zinc
Volatile Organic Compounds:	None Detected

MW-31d

Metals:	Zinc
Volatile Organic Compounds:	Chloroform

MW-32

Metals:	Copper, Zinc
Volatile Organic Compounds:	None Detected

TB-1a

Metals:	Copper, Zinc
Volatile Organic Compounds:	None Detected

TB-1a deep

Metals:	Chromium
Volatile Organic Compounds:	Chloroform

MW-33

Metals:	Not Tested
Volatile Organic Compounds:	Not Tested

MW-34

Metals:	Not Tested
Volatile Organic Compounds:	Not Tested

MW-34d

Metals:	Not Tested
Volatile Organic Compounds:	Not Tested

MW-35

Metals:	Not Tested
Volatile Organic Compounds:	Not Tested

MW-36

Metals:	Zinc
Volatile Organic Compounds:	p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene

MW-36d

Metals:	Chromium, Copper, Zinc
Volatile Organic Compounds:	1,1-Dichloroethane, cis-1,2-Dichloroethene, Trichloroethene

SW-2

Metals:	None Detected
Volatile Organic Compounds:	None Detected

SW-3

Metals:	None Detected
Volatile Organic Compounds:	None Detected

SW-7

Metals:	None Detected
Volatile Organic Compounds:	None Detected

SW-8

Metals:	None Detected
Volatile Organic Compounds:	None Detected

"J" values were not included in the previous list, but several locations had "J" value detections that exceeded the standards. The "J" value constituents above the standards along with their locations are listed below.

Antimony:	MW-6d, -8d, -10, -11d, -23d
Cobalt:	MW-9, -10, -11, -23, -30, -32, -TB-1A, -36, -36d
Vanadium:	MW-6d, -7, -8, -8d, -10d, -11, -11d, -22, -23, -23d, -24, -29d, -31, -31d, -32, -TB-1A, -TB-1A d, -36, -36d
Tetrachloroethene:	MW-6d
Vinyl Chloride:	MW-36

The equipment blank had "J" flag detection of antimony and the trip blank had a "J" flag detection of cloromethane.

The duplicate sample, Dup, was collected from MW-23 and had similar concentrations of all compounds. A complete summary of all detected constituents, including detections above the MDL, is presented in **Table 3**. Laboratory results are provided in electronic format at the end of this report.

Statistical Analysis

Statistical analysis was performed for all detected constituents in the groundwater samples. Data from the downgradient compliance wells were compared statistically to data from the background wells using either an ANOVA comparison or the Test of Proportions. The ANOVA comparison was used for all VOC detections. The ANOVA comparison was also used for the metal's comparisons where greater than 50% of the data were above detection limits. While using the ANOVA comparison, in instances where results were below detection limits, the MDL was substituted. The Test of Proportions was used only for metal's comparisons where greater than 50% of the data was non-detect.

For the October 2010 sampling event, the following constituents were found to be statistically significant: p-dichlorobenzene in MW-5R; cobalt, benzene, and p-dichlorobenzene in MW-6; 1,1-dichloroethane, trichloroethene, and trichlorofluoromethane in MW-6d; cobalt in MW-7; cis-1,2-dichloroethene in MW-8; benzene, p-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, and vinyl chloride in MW-9; mercury, benzene, cis-1,2-dichloroethene, tetrachloroethene, and trichloroethene in MW-10; cadmium and cobalt in MW-22; chloroform in MW-24; chromium in MW-30; chloroform in MW-31d; chromium and chloroform in TB-1a deep; p-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, tetrachloroethene, and trichloroethene in MW-36; and chromium, copper, 1,1-dichloroethane, cis-1,2-dichloroethane, and trichloroethene in MW-36D.

Table 4 presents a summary of all parameters detected during the October 2010 sampling event that exceeded the 2L Standard, Groundwater Protection Standard, or were statistically significant.

Monitored Natural Attenuation

Additional groundwater samples were collected from MW-5R, -6, -8, -9, -10, -11, and -36 for evaluation of monitored natural attenuation as part of the corrective action program as required by Solid Waste Section guidelines. These parameters include biological oxygen demand, chemical oxygen demand, alkalinity, nitrate, chloride, sulfate, sulfide, total organic carbon,

carbon dioxide, methane, ethane, ethene, ferrous iron, volatile fatty acids, dissolved hydrogen, and field measurements of pH, temperature, conductivity, ORP and DO. Results are presented in **Table 5**. The laboratory data for the additional parameters is included in the electronic format data.

BIOCHLOR, an Environmental Protection Agency approved screening model used to evaluate remediation by natural attenuation of dissolved solvents, was used to determine if biodegradation is occurring at these wells. Based on the screening results from the October 2010 data, there is adequate to strong evidence that anaerobic biodegradation is occurring. BIOCHLOR screening results for each well are provided in **Appendix B**. MW-5R scored the lowest due to limited VOC detections. Scores for MW-9, -10, and -36 may have been higher, but dissolved hydrogen was not analyzed due to the depth of the water table at these locations.

As discussed in the approved Corrective Action Plan (March 2010), concentrations of some of the data from select wells indicate that environments are present which favor reductive dechlorination; notably, the concentrations of nitrate, ferrous iron, sulfate, and carbon dioxide. The following evidence indicates that one or more mechanisms of natural attenuation and/or reductive dechlorination may be occurring at the site:

- VOC concentrations in contaminated wells continue to decline.
- The ratio of parent / daughter compounds continues to decrease over time.
- Nitrate, ferrous iron, sulfate, and carbon dioxide continue to be detected at concentrations favoring reductive dechlorination.
- Concentrations of cis-1,2-DCE continue to be greater than other DCE isomers trans-1,2-DCE and 1,1-DCE.

In addition to favorable conditions for attenuation, the County has also installed a vacuum extraction system around the perimeter of the landfill to prevent offsite migration of landfill gas. Since previous work has indicated a relationship between the landfill gas and the contaminated groundwater, the installation of the gas extraction system appears to further reduce groundwater contaminant concentrations. The perimeter landfill gas remediation vacuum system was initiated in January 2002. As discussed in the approved CAP, the vacuum extraction system will be used in conjunction with an air sparging system to reduce VOCs in the bedrock and PWR between MW-9 and the MW-6 nested pair.

Recommendations

Wake County will continue with the semi-annual assessment monitoring program. In addition to the Appendix I and detected Appendix II constituents, samples collected from MW-5, -6, -8, -9, -10, -11, and -36 will continue to be analyzed for natural attenuation parameters during the semi-annual events. It is likely that the detections of chloroform in MW's -31, -31d, TB-1a, and -TB1a deep are attributed to a release from a municipal water line in the Falls River development and are not related to a release from the landfill. Groundwater samples from the annually monitored wells (MW-28, -28d, -33, -34, -34d, -35) will be collected during the spring 2011 sampling event. In addition, detected Appendix II constituents (SVOCs, pesticides, herbicides) will also be collected during the next sampling event.

The County has evaluated the detections in MW-36 and MW-36d and proposed a corrective action to remediate groundwater in this area. The Selected Remedy of monitored natural attenuation paired with in situ remediation by air sparging was approved by the Solid Waste Section in December 2009. The pilot test was conducted throughout July and August 2010 near MW-6. The full-scale system is likely to be installed during April 2010.

If you have any questions or require further explanation, do not hesitate to call me at 787-5620.

Very truly yours,

Mathew F. Colone, P.G.
Camp Dresser & McKee

cc: Elliott Cornell, P.G., WCSWM

Table 1
Water Quality Field Parameters
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

	Field Measurements						Groundwater Elevations		
Monitoring Well I.D.	pH (-)	Conductivity (µS)	Temperature (deg. C)	Turbidity (NTU)	DO (mg/L)	ORP (-)	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-5R	6.34	425	16.9	13	1.05	-64.3	225.28	16.72	208.56
MW-6	6.50	1,894	19.3	3	2.36	-110.9	219.80	12.74	207.06
MW-6d	6.10	145	18.0	45	1.33	-55.4	218.61	12.65	205.96
MW-7	6.20	650	18.6	91	1.50	-34.4	234.15	11.88	222.27
MW-8	5.84	179	18.5	2	1.01	-72.2	226.38	11.13	215.25
MW-8d	6.11	152	17.4	11	2.39	-7.9	226.16	12.28	213.88
MW-9	6.30	498	17.9	49	3.54	-71.2	242.69	30.43	212.26
MW-10	5.66	230	17.1	22	2.77	-39.1	274.76	43.61	231.15
MW-10d	6.34	158	18.6	29	3.99	4.7	274.54	46.90	227.64
MW-11	5.65	82	16.8	87	6.68	15.2	343.63	42.94	300.69
MW-11d	5.81	95	17.4	49	6.24	12.0	343.27	43.15	300.12
MW-22	6.04	127	16.1	57	7.91	-21.1	254.62	34.96	219.66
MW-23	5.77	73	16.2	342	7.13	52.9	274.83	44.75	230.08
MW-23d	5.84	138	16.4	13	4.98	37.1	274.89	44.97	229.92
MW-24	5.77	82	16.9	379	5.98	39.4	266.64	45.10	221.54
MW-27	**ABANDONED**						**ABANDONED**		
MW-28	**NOT SAMPLED**						**NOT SAMPLED**		
MW-28d	**NOT SAMPLED**						**NOT SAMPLED**		
MW-29d	5.01	117	17.0	21	7.19	54.3	275.06	41.36	233.70
MW-30	5.90	112	16.1	203	6.44	65.4	282.32	50.41	231.91
MW-31	5.90	132	16.9	129	7.49	70.6	261.67	32.56	229.11
MW-31d	6.24	150	17.3	74	4.37	2.3	260.92	32.06	228.86
MW-32	5.46	69	16.6	38	3.94	2.4	242.99	17.15	225.84
TB-1a	5.72	181	16.1	106	3.41	-80.5	255.05	28.51	226.54
TB-1a deep	6.04	168	16.5	61	1.72	-38.9	256.01	30.57	225.44
MW-33	**NOT SAMPLED**						**NOT SAMPLED**		
MW-34	**NOT SAMPLED**						**NOT SAMPLED**		
MW-34d	**NOT SAMPLED**						**NOT SAMPLED**		
MW-35	**NOT SAMPLED**						**NOT SAMPLED**		
MW-36	5.94	162	16.0	86	4.01	-17.9	237.40	27.04	210.36
MW-36d	6.27	263	16.9	75	1.71	-17.2	237.68	27.25	210.43
SW-2	6.95	101	19.8	22	7.09	15.1			
SW-3	8.44	104	19.2	45	8.38	-22.2			
SW-7	6.78	82	20.1	45	7.58	16.1			
SW-8	6.91	80	19.7	44	7.13	-15.6			

NOTES:
(1) AMSL - Above Mean Sea Level
(2) TOC - Top of Casing
(3) SW - Surface Water
(4) MW-27 was abandoned on November 24, 2008 in accordance with 15A NCAC 2C .0113
(5) MW-36/36d installed November 2008
(6) Monitoring wells MW-28, -28d, -33, -34, -34d, and -35 sampled yearly during the spring event
(7) Turbidity readings were recorded at the time samples were collected

Table 2
Summary of Calculated Groundwater Flow Velocities
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

	Sampling Date:		11/11/2005		4/13/2006		11/9/2006		4/17/2007		11/9/2007	
Monitoring Well Designation	Hydraulic Conductivity ft/day (cm/s)	Effective Porosity	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)
MW-5R	0.33 1.16E-04	0.18	0.0179	3.28E-02	0.0417	7.65E-02	0.0399	7.32E-02	0.0125	2.29E-02	0.0119	2.18E-02
MW-6	10.58 3.73E-03	0.13	0.0172	1.40E+00	0.0172	1.40E+00	0.0172	1.40E+00	0.0132	1.07E+00	0.0125	1.02E+00
MW-7	1.15 4.06E-04	0.18	0.0172	1.10E-01	0.0172	1.10E-01	0.0172	1.10E-01	0.0208	1.33E-01	0.0278	1.78E-01
MW-8	3.61 1.27E-03	0.18	0.0217	4.35E-01	0.0313	6.28E-01	0.0313	6.28E-01	0.0135	2.71E-01	0.0125	2.51E-01
MW-9	1.22 4.30E-04	0.30	0.0152	6.18E-02	0.0152	6.18E-02	0.0152	6.18E-02	0.0200	8.13E-02	0.0172	6.99E-02
MW-10	0.509 1.80E-04	0.05	0.0250	2.55E-01	0.0250	2.55E-01	0.0250	2.55E-01	0.0417	4.25E-01	0.0556	5.66E-01
MW-11	5.66 2.00E-03	0.13	0.0200	8.71E-01	0.0204	8.88E-01	0.0204	8.88E-01	0.0213	9.27E-01	0.0213	9.27E-01
MW-22	0.07 2.47E-05	0.18	0.0278	1.08E-02	0.0385	1.50E-02	0.0385	1.50E-02	0.0400	1.56E-02	0.0278	1.08E-02
MW-23	3.59 1.27E-03	0.30	0.0208	2.49E-01	0.0227	2.72E-01	0.0227	2.72E-01	0.0208	2.49E-01	0.0196	2.35E-01
MW-24	0.34 1.20E-04	0.30	0.0161	1.82E-02	0.0156	1.77E-02	0.0156	1.77E-02	0.0313	3.55E-02	0.0417	4.73E-02
MW-36	17.56 6.19E-03	0.30										
MW-36D	0.78 2.75E-04	0.10										

Notes:
(1) MW-36/36D installed November 2008

Table 2
Summary of Calculated Groundwater Flow Velocities
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

	Sampling Date:		5/15-21/2008		11/5-08/2008		3/10-13/2009		12/02-04/2009		5/11-13/2010	
Monitoring Well Designation	Hydraulic Conductivity ft/day (cm/s)	Effective Porosity	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)
MW-5R	0.33 1.16E-04	0.18	0.0230	4.21E-02	0.0232	4.26E-02	0.0229	4.20E-02	0.0230	4.22E-02	0.0234	4.29E-02
MW-6	10.58 3.73E-03	0.13	0.0202	1.65E+00	0.0203	1.65E+00	0.0203	1.65E+00	0.0200	1.63E+00	0.0207	1.68E+00
MW-7	1.15 4.06E-04	0.18	0.0250	1.60E-01	0.0251	1.61E-01	0.0251	1.60E-01	0.0251	1.61E-01	0.0256	1.64E-01
MW-8	3.61 1.27E-03	0.18	0.0243	4.87E-01	0.0242	4.85E-01	0.0241	4.84E-01	0.0242	4.86E-01	0.0246	4.93E-01
MW-9	1.22 4.30E-04	0.30	0.0197	8.00E-02	0.0198	8.05E-02	0.0197	8.02E-02	0.0198	8.04E-02	0.0201	8.18E-02
MW-10	0.509 1.80E-04	0.05	0.0168	1.71E-01	0.0171	1.74E-01	0.0170	1.73E-01	0.0171	1.74E-01	0.0170	1.73E-01
MW-11	5.66 2.00E-03	0.13	0.0212	9.23E-01	0.0213	9.29E-01	0.0211	9.17E-01	0.0211	9.19E-01	0.0214	9.31E-01
MW-22	0.07 2.47E-05	0.18	0.0181	7.03E-03	0.0181	7.04E-03	0.0181	7.04E-03	0.0182	7.06E-03	0.0183	7.11E-03
MW-23	3.59 1.27E-03	0.30	0.0194	2.33E-01	0.0196	2.34E-01	0.0196	2.34E-01	0.0196	2.34E-01	0.0196	2.34E-01
MW-24	0.34 1.20E-04	0.30	0.0244	2.76E-02	0.0246	2.78E-02	0.0245	2.78E-02	0.0247	2.80E-02	0.0248	2.81E-02
MW-36	17.56 6.19E-03	0.30					0.0194	1.14E+00	0.0194	1.14E+00	0.0198	1.16E+00
MW-36D	0.78 2.75E-04	0.10					0.0193	1.50E-01	0.0193	1.51E-01	0.0196	1.53E-01

Notes:
(1) MW-36/36D installed November 2008

Table 2
Summary of Calculated Groundwater Flow Velocities
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

	Sampling Date:		10/25-27/2010	
Monitoring Well Designation	Hydraulic Conductivity ft/day (cm/s)	Effective Porosity	Gradient	Average Linear Velocity (ft/day)
MW-5R	0.33 1.16E-04	0.18	0.0237	4.34E-02
MW-6	10.58 3.73E-03	0.13	0.0206	1.68E+00
MW-7	1.15 4.06E-04	0.18	0.0256	1.63E-01
MW-8	3.61 1.27E-03	0.18	0.0248	4.98E-01
MW-9	1.22 4.30E-04	0.30	0.0201	8.19E-02
MW-10	0.509 1.80E-04	0.05	0.0172	1.75E-01
MW-11	5.66 2.00E-03	0.13	0.0215	9.36E-01
MW-22	0.07 2.47E-05	0.18	0.0184	7.16E-03
MW-23	3.59 1.27E-03	0.30	0.0197	2.36E-01
MW-24	0.34 1.20E-04	0.30	0.0250	2.83E-02
MW-36	17.56 6.19E-03	0.30	0.0198	1.16E+00
MW-36D	0.78 2.75E-04	0.10	0.0196	1.53E-01

Notes:
(1) MW-36/36D installed November 2008

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-11	15-Apr-94			221				23	54	14							**50**	88
MW-11	11-May-94			146				19	55	14							**50**	83
MW-11	10-Jun-94			191				27	111	7.6		20					**90**	114
MW-11	3-Oct-94			143			**16**	26	74	8							**60**	85
MW-11	13-Jun-95																	
MW-11	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	31-Oct-95		11	842	**8**		**24**	**71**	331	**26**		87					**117**	314
MW-11	22-Mar-96							15			**1.8**						**51**	70
MW-11	29-Nov-96		35															
MW-11	22-Apr-97																	130
MW-11	31-Oct-97																	66
MW-11	11-May-98																	
MW-11	8-Dec-98					**2.1**												
MW-11	14-Apr-99																	
MW-11	30-Nov-99																	
MW-11	5-Apr-00					1.2												
MW-11	18-Dec-00																	
MW-11	18-Apr-01																	
MW-11	27-Nov-01			311					16.5									29.7
MW-11	5-Apr-02																	
MW-11	5-Nov-02																	
MW-11	15-Apr-03																	
MW-11	29-Oct-03																	
MW-11	18-Nov-04																	
MW-11	21-Apr-05																	
MW-11	11-Nov-05																	83
MW-11	14-Apr-06																	
MW-11	10-Nov-06																	82
MW-11	20-Apr-07																	21
MW-11	8-Nov-07			332	2.1				39	12							**58**	113
MW-11	15-May-08			77.8J			5.4J		10.5	3.92J				4.48J		**5.63**	2.9J	16.1
MW-11	10-Nov-08			53.1J	3.03	0.35JB	2.73JB		5.94JB	9.78JB				4.02JB			1.14J	8.18J
MW-11	11-Mar-09			99.1JB	**6.29**	0.24J	4.39JB	6.51JB	13.6B	5.84JB				6.34JB			**20.3JB**	20.7
MW-11	3-Dec-09			412	2.36	0.022J	**14.9**	25.4	102B	**19.2**		14.5J	10.7				**99B**	120B
MW-11	12-May-10			62.1J			1.45J		1.92J								2.67J	12.6
MW-11	26-Oct-10			143			3.50J	**5.47J**	25.8	5.69J							**23.0J**	42.7
MW-11d	31-Oct-95					**2**												
MW-11d	22-Mar-96					1												
MW-11d	29-Nov-96			26														
MW-11d	22-Apr-97																	54
MW-11d	31-Oct-97																	26
MW-11d	11-May-98																	69
MW-11d	8-Dec-98					1.9												
MW-11d	14-Apr-99																	
MW-11d	30-Nov-99																	
MW-11d	5-Apr-00																	
MW-11d	18-Dec-00																	
MW-11d	18-Apr-01																	
MW-11d	27-Nov-01																	
MW-11d	5-Apr-02										0.3							
MW-11d	5-Nov-02																	
MW-11d	15-Apr-03																	
MW-11d	29-Oct-03																	
MW-11d	18-Nov-04																	
MW-11d	21-Apr-05																	
MW-11d	11-Nov-05																	
MW-11d	14-Apr-06																	
MW-11d	10-Nov-06																*	
MW-11d	20-Apr-07																	
MW-11d	8-Nov-07																	16
MW-11d	15-May-08			59.7J	3.07		6.41J		8.21J	4.59J				3.98J		**6.91**	0.97J	9.82J
MW-11d	10-Nov-08			37.6J		0.36JB	1.94JB		5.8JB	8.5JB				4.37JB			**4.09J**	4.14J
MW-11d	16-Mar-09		4.11J	87.7JB	**6.11B**	0.41J	7.14JB		15.3B	6.94JB				1.22JB			**20.1J**	21.9
MW-11d	4-Dec-09			61.4JB			5.41JB		8.2JB					3.16JB			**7.28JB**	8.85JB
MW-11d	13-May-10	1.01J		47.8J			5.10J		3.10J								**5.50J**	12.3
MW-11d	27-Oct-10	**1.73J**		41.3J			3.56J		2.79J								**3.82J**	9.73J

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-5	6-Mar-94			76														110
MW-5	15-Apr-94			60		0.9								**62**				47
MW-5	11-May-94			58		0.5			11									28
MW-5	31-May-94			66				11				17						63
MW-5	10-Jun-94			54						2.5								20
MW-5	30-Sep-94			48										7.3				10
MW-5	13-Jun-95																	
MW-5	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	31-Oct-95					1												
MW-5 (dup)	31-Oct-95					1												
MW-5	30-Jan-96																	237
MW-5	29-Nov-96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	22-Apr-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	1-Nov-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	6-May-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	6-Aug-98				2.2	**4.9**	32	24									68	190
MW-5	8-Dec-98					1.5												
MW-5	16-Apr-99					1.5		28.3										
MW-5	2-Dec-99					1		49.8										
MW-5	11-Apr-00							34.8										
MW-5	20-Dec-00							26.9										
MW-5	16-Apr-01							32.1										
MW-5	3-Dec-01							19.3										
MW-5	12-Apr-02							34.9										70.5
MW-5	5-Nov-02							37.7										
MW-5	17-Apr-03							55.1										
MW-5	4-Nov-03			533		**3.06**		**113**										
MW-5 (dup)	4-Nov-03			590		**3.48**		**123**										
MW-5	14-Apr-04					1.52		55.3										
MW-5	18-Nov-04							**166**										57
MW-5	21-Apr-05							18										
MW-5	11-Nov-05							**139**										57
MW-5	14-Apr-06							**90**										
MW-5	9-Nov-06							23										
MW-5	19-Apr-07			125				16										
MW-5	9-Nov-07			164														
MW-5R	21-Apr-04		12.4															
MW-5R	21-May-08			94J	1.42J		2.36J		4.54J									44.1
MW-5R	10-Nov-08			106		0.53JB	2.74JB	5.65J	4.61JB	6.76JB		9.87J		4.41JB			2.76J	8.23J
MW-5R	11-Mar-09			116B	0.63J		4.97JB	10.5B	5.48JB	4.30JB		5.44J		7.03JB			**4.16JB**	9.72J
MW-5R	3-Dec-09			106				3.6J	3.2JB			2.36					**1.45JB**	38.3B
MW-5R	12-May-10			96.9J			2.85J	1.17J				3.11J						6.29J
MW-5R	25-Oct-10			77.0J		1.66	3.45J		6.88J	14.4		2.43J		11.8				25

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-6	6-Mar-94			190			**32**	10	33	**18**		33					**63**	51
MW-6	15-Apr-94			144			**20**	12	20	11				7.3			**50**	27
MW-6	11-May-94			175			**30**	13	33	9.3				7.3			**70**	35
MW-6	1-Jun-94			260	**5.4**		**49**	16	28	14		13					**100**	72
MW-6	25-Aug-94			68										7.3				
MW-6	29-Sep-94			110			**19**		19	6.9				7.3			**40**	16
MW-6	13-Jun-95				2		**22**				**2.6**						**41**	
MW-6	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.5	NS	NS	NS	NS	NS	NS	NS
MW-6	31-Oct-95										**2.5**							
MW-6	30-Jan-96				**7**		**44**	12		13	**1.8**						**65**	61
MW-6	29-Nov-96			150	2		**20**	6	21	6	0.83						**52**	40
MW-6	22-Apr-97						**12**				**1.1**							67
MW-6	2-Nov-98						**14**				0.54							28
MW-6	6-May-98										0.65							
MW-6 (dup)	6-May-98																	
MW-6	8-Dec-98					1.4					0.81							
MW-6	16-Apr-99										0.7							
MW-6	2-Dec-99										0.9							
MW-6	11-Apr-00										**1.1**							
MW-6	19-Dec-00										**1.8**							
MW-6	16-Apr-01										**1.9**							
MW-6	3-Dec-01										0.6							
MW-6	12-Apr-02																	
MW-6	5-Nov-02										0.9							
MW-6	17-Apr-03							14.4			0.7							
MW-6	4-Nov-03							30.1			0.464							
MW-6	14-Apr-04		20.6					48.1			0.283							
MW-6	18-Nov-04					2	**47**	**88**			0.53						**41**	
MW-6	21-Apr-05							33										
MW-6	11-Nov-05					1	**19**	50										
MW-6	14-Apr-06					2	**10**	69										
MW-6	9-Nov-06						**10**	65										
MW-6	19-Apr-07			461				**89**										13
MW-6	9-Nov-07			701				61										
MW-6	20-May-08			547	3.34	0.57J	4.84J	**92.3**	14.5	5.31J	0.167J	16.3J		1.6J		**14.8**		32.9
MW-6	11-Nov-08			759B	3.61B	0.25J	7.98JB	**74.4**	20.2B	5.74J		19.1J		10.0B		**15.0**	**7.56JB**	6.90JB
MW-6	11-Mar-09			477B		0.58J	5.14JB	**72.1B**	10.4B	7.43JB	0.143J	14J		8.39JB		**7.8**	**3.78JB**	4.50J
MW-6	3-Dec-09			449	0.61J	0.31J	2.47J	**62.4**	7.16JB			11.4J	3.7J					3.41JB
MW-6	12-May-10	0.286J		575		**2.03**		**80**	3.44J	2.10J		15.8J	4.88J	3.26J		0.259J		5.33J
MW-6	26-Oct-10	0.338JB		416		1.02		**37.4**	8.73J	9.55J		10.5J	3.32J	9.23J				17.5
MW-6d	8-Jun-01																	
MW-6d	4-Dec-01																	
MW-6d	9-Apr-02																	
MW-6d	7-Nov-02																	
MW-6d	16-Apr-03																	
MW-6d	5-Nov-03																	
MW-6d	21-Apr-04						**17.3**											
MW-6d	18-Nov-04					1												
MW-6d	21-Apr-05					1												
MW-6d	11-Nov-05					1												
MW-6d	11-Apr-06					1												
MW-6d	9-Nov-06																	
MW-6d	20-Apr-07																	11
MW-6d	8-Nov-07																	
MW-6d	20-May-08			34.2J	0.98J		5.56J		6.79J								0.61J	
MW-6d	6-Nov-08			80.3JB	1.96B		**16.3B**	4.52J	15.9B	9.04JB		6.77J		8.74JB		**6.3**	**17.8JB**	13.2
MW-6d (dup)	6-Nov-08		2.57J	77.0JB	**11.6B**		**13.5B**	4.63J	14.0B	9.24JB		5.22J		8.35JB			**17.9JB**	12
MW-6d	12-Mar-09			69.7J			2.30J		5.24JB							**5.51**	**7.89JB**	6.82J
MW-6d	3-Dec-09			119			2.39J		6.14JB			5.84J					**6.45JB**	9.62JB
MW-6d	12-May-10	0.619J		77.7J			3.06J	2.35J	3.50J			2.40J					**4.15J**	10.3
MW-6d	27-Oct-10	**3.99J**		52.3J			2.17J		3.76J								**4.41J**	12.5

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-7	6-Mar-94			190			**48**	17	110	**22**		21					**67**	82
MW-7	15-Apr-94			136			**30**	11	53	**25**		20					**40**	56
MW-7	11-May-94			51			**30**	11	24	6.8							**40**	29
MW-7	31-May-94			350	**5.4**		**89**	30	180	**34**		40					**140**	150
MW-7	25-Aug-94			44					25	2.7								19
MW-7	29-Sep-94			49			**15**		26	4.7							**20**	20
MW-7	13-Jun-95																	
MW-7	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	31-Oct-95																	
MW-7	30-Jan-96				2		**35**			10								
MW-7	29-Nov-96			17														
MW-7	21-Apr-97										0.38							
MW-7 (dup)	21-Apr-97										0.22							
MW-7	1-Nov-97										0.58							48
MW-7	6-May-98										0.24							
MW-7	8-Dec-98					**2.6**	**15**				0.25							
MW-7	16-Apr-99																	
MW-7	2-Dec-99										0.2							
MW-7	11-Apr-00										0.2							
MW-7 (dup)	11-Apr-00										0.2							
MW-7	19-Dec-00										0.3							
MW-7 (dup)	19-Dec-00										0.3							
MW-7	16-Apr-01																	
MW-7	4-Dec-01																	
MW-7	9-Apr-02							10.1										
MW-7	6-Nov-02																	
MW-7	16-Apr-03							20.3										
MW-7	5-Nov-03							19.2										
MW-7	21-Apr-04							29.5										
MW-7 (dup)	21-Apr-04		12.1					24										
MW-7	18-Nov-04							44										
MW-7	21-Apr-05							44										
MW-7	11-Nov-05							15										
MW-7	11-Apr-06							26										
MW-7	9-Nov-06					**2**	**36**	29			0.63							56
MW-7	20-Apr-07							16										18
MW-7	8-Nov-07					1	**11**	14	13									20
MW-7	15-May-08		2.16J	43.4J			**10.8**	19.3	12.6	4.28J		9.94J	10.4	5.99J		**21.1**		9.72J
MW-7	5-Nov-08		2.68J	38.3JB	**6.84B**		3.42JB		6.81JB	9.68JB				8.61JB	38JB		3.03JB	6.38J
MW-7	10-Mar-09			10.7J			8.23J	19.3	8.17J	4.72J		6.35J		3.42JB			**9.49J**	
MW-7	2-Dec-09			52.8J	0.74J	0.66J	**18.5**	17.5	27.5B			10J					**15.3JB**	13.8B
MW-7 (dup)	2-Dec-09			38.4J	0.56J	0.52J	9.86J	14.5	20.7B			7.69J					**9.07JB**	8.36JB
MW-7	13-May-10			49.7J		0.90J	1.64J	32.7	16.2	4.14J		10.7J	0.889J				**4.95J**	15.6
MW-7	27-Oct-10			66.5J		1.32	6.18J	**33.8**	10.1	3.50J		15.1J	0.999J	2.68J			**8.20J**	27.7

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-8	6-Mar-94			120			**17**		26			13					**35**	49
MW-8	15-Apr-94			97					22	4.2		20					**30**	35
MW-8	11-May-94			89					20	4.3							**20**	26
MW-8	31-May-94			330	**5.4**		**81**	34	90	**16**		39					**150**	150
MW-8	25-Aug-94			76					13	2.7								21
MW-8	30-Sep-94			82			**20**		14	5.4							**20**	19
MW-8	13-Jun-95						**38**	11									**87**	
MW-8	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	31-Oct-95																	
MW-8	30-Jan-96				3		**35**	12									**64**	63
MW-8 (dup)	30-Jan-96				3		**36**	12									**63**	76
MW-8	29-Nov-96			120			**14**	5	21								**31**	54
MW-8 (dup)	29-Nov-96			82														19
MW-8	21-Apr-97						**19**											
MW-8	2-Nov-97																	
MW-8	6-May-98																	
MW-8	8-Dec-98					1.2												
MW-8	16-Apr-99																	
MW-8 (dup)	16-Apr-99																	
MW-8	2-Dec-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	11-Apr-00					**2.1**												
MW-8	20-Dec-00					1.5		17.1										
MW-8	16-Apr-01																	
MW-8	3-Dec-01																	
MW-8	12-Apr-02																	
MW-8	5-Nov-02					1.2	**15.3**											
MW-8	17-Apr-03																	
MW-8	4-Nov-03																	
MW-8	14-Apr-04						**19.8**											
MW-8	18-Nov-04						**198**	**72**		13		**114**					**281**	161
MW-8	21-Apr-05																	
MW-8	11-Nov-05				3		**31**			14								116
MW-8	14-Apr-06				3	**2**	**30**			14							**50**	111
MW-8	9-Nov-06				2		**34**			11								99
MW-8	20-Apr-07																	
MW-8	9-Nov-07																	15
MW-8	20-May-08			26.4J			4.72J		3.99J		0.091J							6.16J
MW-8	10-Nov-08			25.6J	2.49	0.33JB	3.27JB		4.37JB	9.17JB				4.03JB				
MW-8	11-Mar-09			37.1JB	2.75		4.38JB	4.48JB	5.02JB		0.045J	4.91J		7.06JB			**3.71JB**	
MW-8	3-Dec-09			34.1J	0.5J		6.17J		6.8JB			3.15J					**9.97JB**	59.1B
MW-8	12-May-10			32.5J			1.24J										1.42J	4.80J
MW-8	25-Oct-10			37.0J	0.106J	0.804J	1.69J		7.78J	5.34J				4.12J			**1.61J**	22.9
MW-8d	8-Jun-01												12.7					
MW-8d	4-Dec-01																	
MW-8d	9-Apr-02																	
MW-8d (dup)	9-Apr-02																	
MW-8d	7-Nov-02																	
MW-8d	16-Apr-03																	
MW-8d	4-Nov-03																	
MW-8d	21-Apr-04																	
MW-8d	18-Nov-04																	
MW-8d	21-Apr-05																	
MW-8d	11-Nov-05																	
MW-8d	14-Apr-06																	
MW-8d	10-Nov-06																	
MW-8d	20-Apr-07																	
MW-8d	8-Nov-07																	11
MW-8d	15-May-08			19.1J			6.86J		3.98J	4.10J				4.16J		**8.59**		4.53J
MW-8d	6-Nov-08		2.49J	25.2JB	3.61B		7.57JB		6.96JB	5.20JB				8.71JB			**6.56JB**	4.8J
MW-8d	16-Mar-09			44.5JB	**9.80B**		6.95JB		6.72JB	6.18JB				2.01JB			**9.36JB**	9.52J
MW-8d	4-Dec-09			32.8JB			8.01JB		8.86JB	9.36JB			4.49J	2.65JB			**4.48JB**	6.64JB
MW-8d	13-May-10	0.884J		24.2J		0.602J	4.79J										**4.39J**	11.9
MW-8d	27-Oct-10	**3.52J**		68.8J			7.58J		4.55J	3.62J		2.06J					**7.95J**	16.6

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-9	6-Mar-94			210														
MW-9	15-Apr-94			199				11										
MW-9	11-May-94			193				10		2.7								14
MW-9	31-May-94			270			**24**	14	25	21							**23**	120
MW-9	25-Aug-94			135														14
MW-9	29-Sep-94			123						4.2								12
MW-9	13-Jun-95							14										
MW-9	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	31-Oct-95																	
MW-9	30-Jan-96				**4**	1	**20**	16		**17**								65
MW-9	29-Nov-96			140														21
MW-9	22-Apr-97																	
MW-9	2-Nov-97							11										37
MW-9	6-May-98																	
MW-9	8-Dec-98					1.5												
MW-9	16-Apr-99																	
MW-9	2-Dec-99																	
MW-9	11-Apr-00																	
MW-9	20-Dec-00																	
MW-9	16-Apr-01																	
MW-9	3-Dec-01		11	166														
MW-9 (dup)	3-Dec-01		12.2	160														
MW-9	12-Apr-02															**10.8**		
MW-9	5-Nov-02							10.1										
MW-9	17-Apr-03							10.6										
MW-9	4-Nov-03							11.3										
MW-9	14-Apr-04		20.6					11.8										
MW-9	18-Nov-04					**7**		10										
MW-9	21-Apr-05																	
MW-9	11-Nov-05																	
MW-9	14-Apr-06					**3**												
MW-9	9-Nov-06																	
MW-9	19-Apr-07			289	2	1	**17**		12	**21**								122
MW-9	9-Nov-07			186														16
MW-9	20-May-08			190	2.9		**27**		5.8J	10.6		11.3J	8.29J	2.84J		**10.4**		5.58J
MW-9 (dup)	20-May-08			190			**22.7**	5.15J	5.87J	8.38J				3.16J		**11.1**		6.10J
MW-9	11-Nov-08			218B	0.3JB		**12.4B**	6.99J	9.59JB	13.5			8.93J	11.1B		**16.9**	**8.49JB**	14.4B
MW-9	11-Mar-09			178B			7.63JB	9.53JB	3.17JB	10.3B				8.89JB			**4.57JB**	
MW-9 (dup)	11-Mar-09			179B			9.27JB	9.33JB	3.39JB	6.28JB		6.45J		8.78JB		**7.3**	**10.8JB**	9.56J
MW-9	3-Dec-09			190	0.64J		7.84J	2.86J	5.25JB				4.37J				**1.49JB**	4.02JB
MW-9	12-May-10			227	0.276J			6.27J		4.59J			0.936J	2.42J				17.6
MW-9	26-Oct-10		3.47J	157	0.207J	0.695J		**3.92J**	8.84J	7.02J		2.80J		5.70J				20.9

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-10	31-Oct-95																	
MW-10	30-Jan-96																	
MW-10	28-Nov-96			71				14										
MW-10	22-Apr-97						**31**	23									**43**	98
MW-10	1-Nov-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	5-May-98					1.3				13	0.34							720
MW-10	18-Aug-98					**4.9**												150
MW-10	10-Sep-98																	
MW-10	6-Oct-98					1.2												
MW-10	8-Dec-98					2												
MW-10	11-Jan-99																	
MW-10	8-Feb-99																	
MW-10 (dup)	8-Feb-99																	
MW-10	16-Apr-99																	
MW-10	2-Dec-99										0.3							
MW-10	12-Apr-00																	
MW-10	20-Dec-00																	
MW-10	17-Apr-01																	
MW-10	3-Dec-01																	
MW-10	12-Apr-02																	
MW-10	5-Nov-02										0.5							
MW-10 (dup)	5-Nov-02										0.4							
MW-10	17-Apr-03										0.4							
MW-10	4-Nov-03																	
MW-10	14-Apr-04																	
MW-10	18-Nov-04					**2**												
MW-10	21-Apr-05																	
MW-10	11-Nov-05										**1.1**							
MW-10	14-Apr-06																	
MW-10	9-Nov-06																	
MW-10	19-Apr-07										0.38							
MW-10	9-Nov-07			399														
MW-10	20-May-08			24.1J		0.21J	2.08J		6.28J		0.374					**6.74**		8.03J
MW-10	11-Nov-08		5.71JB	174B	**12.2B**	0.84J	9.86JB	4.73J	32.9B	**25.2**	**7.53**	8.21J		9.75JB			**24.9JB**	59.3B
MW-10	11-Mar-09			29.3JB		0.20J	2.27JB	5.65JB	3.07JB	7.77JB	0.247J	5.41J		7.13JB			**4.32JB**	7.14J
MW-10	3-Dec-09			16.3J	0.64J				3.96JB								**2.56JB**	8.35JB
MW-10	12-May-10			23.5J	0.147J			4.51J				4.31J						12.9
MW-10	25-Oct-10	**1.33JB**		18.4J	0.30J	0.627J		**1.53J**	8.36J	5.19J	0.241	1.89J		3.17J				22.5
MW-10d	8-Jun-01								30		0.3							
MW-10d	4-Dec-01																	
MW-10d	9-Apr-02																	
MW-10d	5-Nov-02																	
MW-10d	17-Apr-03		**10.9**			1.1	**10.1**											
MW-10d	4-Nov-03																	
MW-10d	26-Apr-04																	
MW-10d	18-Nov-04																	
MW-10d	21-Apr-05					**5**												
MW-10d	11-Nov-05					**5**												
MW-10d	14-Apr-06					**4**												
MW-10d	10-Nov-06																	
MW-10d	20-Apr-07																	
MW-10d	8-Nov-07					1												
MW-10d	20-May-08		9.06J	57.9J	0.5J		**33**		31.8	**21.9**	0.123J	18.7J		3.92J		**5.93**	**18.9J**	28.6
MW-10d	6-Nov-08		5.94J	40.7JB	**5.27B**		**149B**	5.12J	22.9B	**15.1B**		80.3		8.15JB			**16.7JB**	22
MW-10d	12-Mar-09				0.75J		4.38J		3.46JB	4.98J							**9.69JB**	8.62J
MW-10d	4-Dec-09			19.6JB			3.78JB		8.17JB					2.67JB			2.08JB	5.77JB
MW-10d	13-May-10			8.37J		0.466J	**27.6**		2.93J	2.54J		13.5J					2.61J	9.28J
MW-10d	27-Oct-10			3.34J			4.50J		1.61J								**1.55J**	

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-22	9-Jun-97					**2.9**		**130**				66						
MW-22	18-Aug-97		**11.9**			**4.4**		**229**		14.3		**164**						68.6
MW-22	2-Nov-97					1.5		**210**		12		**130**						230
MW-22	6-May-98							**110**				51						80
MW-22	18-Aug-98					**9.6**		**110**										210
MW-22	10-Sep-98							**100**										
MW-22	6-Oct-98							**99**										
MW-22	8-Dec-98					1.9		**130**										
MW-22	11-Jan-99					1.5		**202**				55						
MW-22	8-Feb-99					**2**		**168**										
MW-22	16-Apr-99					**4.1**	**10.1**	**261**		**21**		70.9						
MW-22	2-Dec-99					**7.4**		**160**										
MW-22	12-Apr-00					**6.1**		**98.1**										
MW-22	20-Dec-00					**2.4**		60.7										
MW-22	17-Apr-01					1.2		31.4										
MW-22	5-Dec-01							26.9										
MW-22	9-Apr-02					**2.1**		63.5										
MW-22	6-Nov-02					1.2		26.5										
MW-22	17-Apr-03																	
MW-22	5-Nov-03					1.19	**11.1**	30.1		12.9								
MW-22	26-Apr-04																	
MW-22	18-Nov-04					**3**		15										
MW-22	22-Apr-05				3	**3**	**17**	48		**62**								196
MW-22	11-Nov-05					**2**		13										
MW-22	14-Apr-06					**2**		12										
MW-22	10-Nov-06					**2**		15										
MW-22	20-Apr-07					**2**												20
MW-22	8-Nov-07					**2.8**		24		13								32
MW-22	15-May-08			45J		**4.66**	8.9J	25.1	7.09J	10.3		16.2J	7.95J	5.69J		**7.37**	1.3J	16.3
MW-22	6-Nov-08		4.58J	75.5JB	2.45B	**6.68**	9.28JB	44.9	9.38JB	**15.4B**		27.5J	10.5	10.6B			**20.7JB**	32.6
MW-22	12-Mar-09			21.5J		**10.3**	2.39J	26.9	1.92JB	4.02J		11.6J		1.79J		**6.65**	**35.1B**	10.3
MW-22	4-Dec-09			44.9JB		**4.05**	4.97JB	22.1	8.74JB			10.4J	3.05J	3.24JB			**5.22JB**	9.59JB
MW-22	12-May-10			30.5J		**2.23**		19.2				5.88J						21.5
MW-22	26-Oct-10			29.5J		**2.06**	2.66J	**13.0**	7.94J			5.73J					**2.94J**	21.6

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-23	9-Jun-97																	
MW-23	18-Aug-97		**10.3**			**2.3**		14.2		**18.8**		59.1						
MW-23	2-Nov-97			600	**4.7**	**2.6**	**54**	35		**56**		**110**					**170**	260
MW-23	5-May-98																	
MW-23	18-Aug-98					**5.4**	**24**	10		**17**							**50**	150
MW-23	10-Sep-98																	
MW-23	6-Oct-98					1.6					0.26							
MW-23	8-Dec-98					1.7												
MW-23 (dup)	8-Dec-98					**2.3**												
MW-23	11-Jan-99										0.20							
MW-23	8-Feb-99										0.20							
MW-23	16-Apr-99						**11.2**			**23.8**	0.7							
MW-23	2-Dec-99										0.2							
MW-23 (dup)	2-Dec-99																	
MW-23	12-Apr-00										**1.1**							
MW-23	20-Dec-00																	
MW-23	17-Apr-01																	
MW-23	4-Dec-01																	
MW-23	11-Apr-02																	
MW-23	6-Nov-02																	
MW-23	17-Apr-03																	
MW-23 (dup)	17-Apr-03																	
MW-23	5-Nov-03																	
MW-23	26-Apr-04																	
MW-23	18-Nov-04																	
MW-23	21-Apr-05																	
MW-23	11-Nov-05																	
MW-23	14-Apr-06																	
MW-23	9-Nov-06						**13**		39									133
MW-23	20-Apr-07			133	2		**10**	23	29								**28**	102
MW-23	8-Nov-07			123	1			21	21								**27**	92
MW-23	15-May-08		3.35J	90.7J	6.57		**18.8**	4.50J	32.7	11.7		10.3J		4.56J			**30**	49.2
MW-23	6-Nov-08		4.07J	65.4JB	1.96B		**10.6B**		18.3B	13.2B		8.28J		8.41JB			**17.5JB**	15.9
MW-23	12-Mar-09			62.1J	2.99		**11.9**	3.31J	22.1B	13		7.02J					**36.7B**	35
MW-23	4-Dec-09			48.6JB			4.33JB		12.2B					3.02JB			**3.57JB**	6.88JB
MW-23	13-May-10			124			**23.8**	9.69J	45.6	**23.6**		12.8J				**0.348J**	**52**	81.7
MW-23	27-Oct-10			50.9J		0.562J	8.39J	**1.18J**	14.2	7.54J		2.91J					**14.0J**	20.3
MW-23 (dup)	27-Oct-10			54.3J			9.05J		15.7	7.75J		3.58J					**14.5J**	19.4

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-23d	5-May-98																	80
MW-23d	18-Aug-98					**4**												63
MW-23d	10-Sep-98					1.6				11								
MW-23d	6-Oct-98					**2.0**					0.22							60
MW-23d	8-Dec-98					1.8												83
MW-23d	11-Jan-99																	
MW-23d	8-Feb-99																	
MW-23d	16-Apr-99																	
MW-23d	2-Dec-99																	
MW-23d	12-Apr-00																	
MW-23d	20-Dec-00										0.8							
MW-23d	17-Apr-01																	
MW-23d	4-Dec-01																	
MW-23d	11-Apr-02																	
MW-23d	6-Nov-02																	
MW-23d	17-Apr-03																	
MW-23d	5-Nov-03																	
MW-23d	26-Apr-04																	
MW-23d	18-Nov-04																	
MW-23d	21-Apr-05					**2**				12								55
MW-23d	11-Nov-05					1												
MW-23d	14-Apr-06																	
MW-23d	9-Nov-06																	
MW-23d	20-Apr-07																	
MW-23d	8-Nov-07																	10
MW-23d	15-May-08			36.5J			5.10J		3.39J					3.39J				
MW-23d	6-Nov-08			48.8JB	**7.34B**		6.57JB		5.63JB	6.76JB				8.81JB			**8.38JB**	4.77J
MW-23d	12-Mar-09			24.4J			1.71J		3.23JB								**9.35JB**	12.6
MW-23d	4-Dec-09			50.1JB		0.17J	4.98JB		8.53JB	10.7B				2.77JB			**7.17JB**	11.2B
MW-23d	13-May-10	**2.10J**		41.6J		0.593J	5.43J		3.27J	2.06J							**7.12J**	39.3
MW-23d	26-Oct-10	**1.08J**		25.2J		0.385J	3.62J		1.78J								**4.05J**	7.70J

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-24	9-Jun-97																	
MW-24	18-Aug-97					1.7		11.2										52.8
MW-24	1-Nov-97																	66
MW-24 (dup)	1-Nov-97									12	0.25							91
MW-24	5-May-98																	
MW-24	18-Aug-98					**4.7**				**16**								180
MW-24 (dup)	18-Aug-98		**11**		2.1	**8.9**	12	11		**22**								290
MW-24	10-Sep-98										0.44							
MW-24	6-Oct-98										0.98							
MW-24	8-Dec-98										0.62							
MW-24	8-Dec-98										0.62							
MW-24	11-Jan-99										0.50							
MW-24	16-Apr-99									13.7	0.4							53.1
MW-24	2-Dec-99																	
MW-24	12-Apr-00										0.3							
MW-24	20-Dec-00																	
MW-24	16-Apr-01										0.3							
MW-24 (dup)	16-Apr-01																	
MW-24	3-Dec-01																	
MW-24	12-Apr-02																	
MW-24	5-Nov-02																	
MW-24	17-Apr-03										0.4							
MW-24	4-Nov-03																	
MW-24	14-Apr-04																	
MW-24	18-Nov-04										**1.2**							68
MW-24	21-Apr-05										0.65							
MW-24	11-Nov-05				**5**		11			**52**	**2**							539
MW-24	14-Apr-06				3	**2**				**41**	**1.2**							492
MW-24	9-Nov-06				**4**		10			**48**	**1.7**							464
MW-24	19-Apr-07				1					14	0.68							112
MW-24	9-Nov-07				3.3		10		15	**31**	0.98							305
MW-24	20-May-08			42.4J	3.85		3.47J		7.58J	7.16J	0.046J						**4.83J**	27.4
MW-24	11-Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24	12-Mar-09			52.3J			4.48J		8.35JB	9.33J	0.168J						**18JB**	57.1
MW-24	4-Dec-09			39.7JB			4.11JB		14.9B	11.1B				3.52JB			**4.63JB**	10.2B
MW-24	13-May-10		2.98J	82.9J			6.43J	3.42J	9.23J	13.2	0.197J					0.241J	**13.9J**	87.7
MW-24	27-Oct-10		3.63J	50.2J			3.49J		5.21J	6.78J							**8.13J**	50.4

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-27	4-May-98																	
MW-27	7-Dec-98					1	21											
MW-27	29-Apr-99					**2.3**		19										
MW-27	3-Dec-99							13.2										
MW-27	12-Apr-00					1.7		14.5			0.5							75.6
MW-27	18-Apr-01																	
MW-27	12-Apr-02					1.7		10.5										51.8
MW-27	17-Apr-03																	
MW-27	26-Apr-04																	
MW-27	22-Apr-05				3	1	11										**57**	216
MW-27	11-Nov-05																	
MW-27	14-Apr-06																	
MW-28	1-May-98																	
MW-28	17-Aug-98					**5.6**												
MW-28	9-Sep-98																	
MW-28	7-Oct-98					**8.8**	43	24									**80**	150
MW-28	9-Dec-98					**8.9**	39	19									**68**	140
MW-28	12-Jan-99																	
MW-28	9-Feb-99																	
MW-28	19-Apr-99																	
MW-28	3-Dec-99																	
MW-28	12-Apr-00																	
MW-28	18-Apr-01																	
MW-28	12-Apr-02																	
MW-28	17-Apr-03																	
MW-28	26-Apr-04																	
MW-28	22-Apr-05				2		33	13		**17**							**67**	331
MW-28	13-Apr-06						12											66
MW-28	20-Apr-07						11											88
MW-28	19-May-08			75.8J	**4.29**		16.9	3.18J	6.12J	4.16J							**25.1**	39.9
MW-28	12-Mar-09			22.8J			4.87J							0.89J			**10.1JB**	13
MW-28	13-May-10			35.6J			6.55J	1.35J									**7.87J**	17.6
MW-28d	1-May-98																	
MW-28d	17-Aug-98					1.3												
MW-28d	9-Sep-98																	
MW-28d	7-Oct-98																	
MW-28d	9-Dec-98										0.25							
MW-28d	12-Jan-99																	
MW-28d (dup)	12-Jan-99																	
MW-28d	9-Feb-99																	
MW-28d	19-Apr-99																	
MW-28d	3-Dec-99																	
MW-28d	12-Apr-00																	
MW-28d	18-Apr-01																	
MW-28d	12-Apr-02																	
MW-28d	17-Apr-03																	
MW-28d	26-Apr-04																	
MW-28d	22-Apr-05																	
MW-28d	13-Apr-06																	
MW-28d	20-Apr-07																	35
MW-28d	19-May-08				**7.76**		1.53J		5J	3.8J							1.52J	
MW-28d	12-Mar-09						2.99J		2.04JB	6.28J							**12.7JB**	8.95J
MW-28d	13-May-10			7.52J			2.21J										3.05J	8.79J

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-29d	4-May-98						**13**											
MW-29d	17-Aug-98																	
MW-29d	9-Sep-98					1	**17**											
MW-29d (dup)	9-Sep-98						**11**											
MW-29d	7-Oct-98					**2.7**	**18**											53
MW-29d	9-Dec-98										0.24							
MW-29d	12-Jan-99																	
MW-29d	9-Feb-99																	
MW-29d	19-Apr-99																	
MW-29d	3-Dec-99																	
MW-29d	12-Apr-00																	
MW-29d	19-Dec-00																	
MW-29d	18-Apr-01																	
MW-29d	4-Dec-01																	
MW-29d	11-Apr-02																	
MW-29d	6-Nov-02																	
MW-29d	18-Apr-03																	
MW-29d	5-Nov-03																	
MW-29d	26-Apr-04																	
MW-29d	18-Nov-04					**2**												
MW-29d	22-Apr-05																	
MW-29d	11-Nov-05																	
MW-29d	14-Apr-06																	
MW-29d	10-Nov-06																	
MW-29d	20-Apr-07								16									56
MW-29d	9-Nov-07																	24
MW-29d	19-May-08			33.8J	**6.72**		4.31J		5.61J									4.02J
MW-29d	7-Nov-08			49.8JB	**10.7B**		8.58JB	3.47J	12.1B	5.59JB				8.05JB			**12.1JB**	10.5
MW-29d	10-Mar-09						**11.8**		5.96J	6.80J				1.97JB		6.41	**7.77J**	8.23J
MW-29d	2-Dec-09			37.1J			4.39J		12.6B			2.68J					**5.01JB**	4.93JB
MW-29d	13-May-10			38.5J			4.33J		2.61J								3.10J	23
MW-29d	27-Oct-10	0.542J		30.7J			5.46J		2.91J								**2.09J**	15.7
MW-30	4-May-98						**60**	19									**56**	60
MW-30	17-Aug-98					**34**	**50**	19				50					**50**	190
MW-30	9-Sep-98						**16**					50						140
MW-30	7-Oct-98					1.1												
MW-30	7-Dec-98					**2.6**	**20**											
MW-30	12-Jan-99						**20**											
MW-30	9-Feb-99						**20**											
MW-30	19-Apr-99																	
MW-30	3-Dec-99																	
MW-30	12-Apr-00																	
MW-30	19-Dec-00																	
MW-30	18-Apr-01																	
MW-30	4-Dec-01																	
MW-30	11-Apr-02																	
MW-30	6-Nov-02																	
MW-30	17-Apr-03																	
MW-30	5-Nov-03																	
MW-30	28-Apr-04																	
MW-30	18-Nov-04						**108**	41		12		71					**107**	89
MW-30	21-Apr-05																	
MW-30	11-Nov-05						**13**											
MW-30	14-Apr-06						**15**											
MW-30	10-Nov-06						**32**											83
MW-30	20-Apr-07			416	3		**43**		60	**18**							**44**	150
MW-30	9-Nov-07			419	3.2		**117**		160	**21**		52					**118**	147
MW-30	19-May-08			106	**10.1**		**31.9**	5.84J	58.4	4.9J		13.9J					**30.7**	25.9
MW-30	7-Nov-08			149B	0.59JB		**32.0B**	5.75J	58.4B	8.97JB		16.6J		8.54JB			**53.4B**	38.4
MW-30	11-Mar-09			206B	3.46		**61.6B**	20.3B	116B	14.4B		34.4J		6.51JB			**85.9B**	57.8
MW-30	4-Dec-09			42.1JB			7.58JB		14.2B	10.7B			3.08J	2.47JB			**6.6JB**	23.6B
MW-30	12-May-10		4.72J	**774**		1.25	**239**	64.5	373	**34.2**		**114**				**1.08J**	**253**	254
MW-30	26-Oct-10		4.15J	155			**38**	**9.46J**	68.7	7.91J		18.3J					**40.6**	52.5

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-31	1-May-98																	
MW-31	17-Aug-98					**14**	**88**			**38**		82					**81**	220
MW-31	9-Sep-98					**3.3**	**42**			**15**								530
MW-31	7-Oct-98					1.8	**10**											
MW-31	8-Dec-98					**2.6**	**24**											
MW-31	11-Jan-99																	
MW-31	8-Feb-99																	
MW-31	19-Apr-99																	
MW-31	3-Dec-99																	
MW-31	13-Apr-00																	
MW-31	19-Dec-00																	
MW-31	17-Apr-01						**16.5**											
MW-31	6-Dec-01						**55**											
MW-31	11-Apr-02																	
MW-31	6-Nov-02																	
MW-31	18-Apr-03																	
MW-31	5-Nov-03																	
MW-31	28-Apr-04																	
MW-31	18-Nov-04						**64**	32		14							**120**	64
MW-31	21-Apr-05																	
MW-31	11-Nov-05						**17**											
MW-31	14-Apr-06																	
MW-31	9-Nov-06						**15**											
MW-31	20-Apr-07																	
MW-31	9-Nov-07				1		**38**		19	**22**	0.22						**47**	32
MW-31	19-May-08			50.7J			**18.1**		13.6	8.81J		6.67J		4.33J		**7.52**	**16.9J**	13
MW-31	7-Nov-08			66.6JB			**30.0B**		23.3B	**15.3B**		7.34J		8.57JB			**40.3B**	12.1
MW-31	11-Mar-09			85.6JB	1.34		**30.2B**	6.48JB	21.7B	**19.2B**		11J		6.54JB			**36.4B**	11.1
MW-31	4-Dec-09			38.4JB			**13.4B**		14.5B	11.3B		5.52J	4.62J	2.91JB			**11.8JB**	10.2B
MW-31	12-May-10		3.31J	70.9J	0.182J		**32.4**	2.22J	17.1	9.41J		4.63J					**33.5**	27.1
MW-31	26-Oct-10			21.5J	0.102J		7.8J		4.32J	1.99J							**5.48J**	31
MW-31d	1-May-98				3		**110**	13		**19**		68					**280**	210
MW-31d	17-Aug-98					**8.6**	10											94
MW-31d	9-Sep-98					**2.8**	25										**60**	260
MW-31d	7-Oct-98					**2.2**												
MW-31d	8-Dec-98																	
MW-31d	11-Jan-99						19.1											
MW-31d	8-Feb-99																	
MW-31d	19-Apr-99																	
MW-31d	3-Dec-99																	
MW-31d	13-Apr-00																	
MW-31d	19-Dec-00																	
MW-31d	18-Apr-01																	
MW-31d	6-Dec-01																	
MW-31d	11-Apr-02																	
MW-31d	6-Nov-02																	
MW-31d	18-Apr-03						10.1											
MW-31d	5-Nov-03																	
MW-31d	28-Apr-04																	
MW-31d	18-Nov-04						24										**50**	
MW-31d	21-Apr-05																	
MW-31d	11-Nov-05																	
MW-31d	14-Apr-06																	
MW-31d	9-Nov-06																	
MW-31d	20-Apr-07																	10
MW-31d	9-Nov-07																	
MW-31d	19-May-08			23.2J			8.61J		4.27J	3.63J				4.16J	7.6J		6.26J	4.39J
MW-31d	6-Nov-08		2.66J	31.2JB	**6.26B**		11.7B		8.19JB	10.2B		5.34J		8.47JB			**25.1B**	6.85J
MW-31d	10-Mar-09						5.52J			5.19J				1.44JB			**19.9J**	
MW-31d	2-Dec-09			15.8J			5.23J		9.19JB							0.42J	**7.27JB**	35.5B
MW-31d	11-May-10	0.468J	3.16J	17.6J		0.371J	8.36J		1.74J								**7.97J**	17.7
MW-31d	25-Oct-10	0.582JB		14.8J	0.111J		6.56J										**7.10J**	10.6

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-32	1-May-98						**23**	44									**41**	59
MW-32	17-Aug-98					**5.5**	**10**	31										130
MW-32	9-Sep-98					**5.4**	**34**	45				54					**60**	240
MW-32	6-Oct-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32	7-Dec-98					8	**40**	42				77					**74**	85
MW-32	11-Jan-99							26.5										
MW-32	8-Feb-99							24										
MW-32	19-Apr-99							28.1										
MW-32	3-Dec-99							25.1										
MW-32	13-Apr-00					1.2		40.9										
MW-32	19-Dec-00					1.0		25.8										
MW-32	17-Apr-01							22.8										
MW-32	4-Dec-01							14.7										
MW-32	11-Apr-02							12.1										
MW-32	6-Nov-02							12.2										
MW-32	18-Apr-03					1.4		24										
MW-32	4-Nov-03							10.3										
MW-32	28-Apr-04							10.5										
MW-32	18-Nov-04							11										
MW-32	21-Apr-05																	
MW-32	11-Nov-05																	
MW-32	14-Apr-06																	
MW-32	9-Nov-06																	
MW-32	20-Apr-07								18									21
MW-32	9-Nov-07																	29
MW-32	19-May-08			16.7J			4.81J		10.7	4.53J				4.35J			0.72J	5.83J
MW-32	6-Nov-08			18.4JB	**8.50B**		4.14JB	4.41J	6.41JB	6.36JB				9.0JB			**8.39JB**	4.39J
MW-32	11-Mar-09			23.5JB			4JB	7.94JB	13.4B	5.74JB		5.61J		6.91JB			**10.9JB**	
MW-32	4-Dec-09			21.6JB			4JB	8.41JB					3.28J	3.21JB			0.78JB	3.89JB
MW-32	12-May-10			11.7J			1.34J	4.70J	6.82J								**3.52J**	19.1
MW-32	26-Oct-10			20.7J			3.54J	**3.28J**	16			2.48J					**10.7J**	21.1
TB-1a	1-May-98					1.1								14				50
TB-1a	17-Aug-98					**9.3**	**21**	20										130
TB-1a	9-Sep-98					**2.6**	**14**	16										160
TB-1a	7-Oct-98					**4.0**	**17**	14										
TB-1a (dup)	7-Oct-98					**2.1**		14										
TB-1a	9-Dec-98					**3.0**					0.22							
TB-1a	11-Jan-99																	
TB-1a	8-Feb-99																	
TB-1a	19-Apr-99																	
TB-1a	3-Dec-99																	
TB-1a	13-Apr-00																	
TB-1a	20-Dec-00																	
TB-1a	17-Apr-01																	
TB-1a	3-Dec-01								17.3									
TB-1a	12-Apr-02																	
TB-1a	5-Nov-02					**2.2**	**12.7**											
TB-1a	17-Apr-03																	
TB-1a	4-Nov-03																	
TB-1a	14-Apr-04																	
TB-1a	18-Nov-04					**2**	**20**											
TB-1a	21-Apr-05					**2**												
TB-1a	11-Nov-05					**2**	**12**				0.95							67
TB-1a	14-Apr-06					**3**					0.88							
TB-1a	9-Nov-06					**5**	**17**				**2.5**							87
TB-1a	19-Apr-07					**39**	**14**		88	14	**1.9**						30	262
TB-1a	8-Nov-07					**8**			29									51
TB-1a	20-May-08			22J	1.94	0.87J	3.47J		16.8	3.79J	0.143J							10.1
TB-1a	11-Nov-08		12.9	502		**5.92**	**95.8B**	44.9	511B	**19.4**	0.76	75.5	27.8	7.84JB			**200B**	198
TB-1a	11-Mar-09			64.8JB	3.46	**3.25**	9.58JB	9.49JB	39B	9.25JB	0.253J	12.2J		6.57JB			**23.9JB**	17.3
TB-1a	3-Dec-09			68.5J	0.45J	**3.33**	9.13J	3.89J	56.4B	6.92J		12.2J	3.97J				**23JB**	26.5B
TB-1a	12-May-10			76J		1.49	9.71J	7.78J	55.4		0.339	7.66J					**25.8**	27.7
TB-1a	26-Oct-10			43.4J		0.544J	4.92J	**4.77J**	27.2			5.70J					**12.5J**	28.2

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
TB-1a deep	8-Jun-01																	
TB-1a deep	6-Dec-01																	
TB-1a deep	11-Apr-02																	
TB-1a deep	6-Nov-02																	
TB-1a deep	18-Apr-03																	
TB-1a deep	4-Nov-03																	
TB-1a deep	28-Apr-04																	
TB-1a deep	18-Nov-04																	
TB-1a deep	21-Apr-05																	
TB-1a deep	11-Nov-05																	
TB-1a deep	14-Apr-06																	
TB-1a deep	10-Nov-06																	
TB-1a deep	20-Apr-07																	
TB-1a deep	8-Nov-07																	
TB-1a deep	19-May-08			15.6J			**22.6**		5.37J	5.36J		6.9J		4.69J		**5.54**	**6.86J**	7.06J
TB-1a deep	7-Nov-08			15.2JB	1.05B		**16.8B**		8.18JB	5.33JB				8.69JB			**18.9JB**	
TB-1a deep	12-Mar-09				**4.48**	0.23J	**12.6**		3.46JB	6.73J							**9.29JB**	18.5
TB-1a deep	4-Dec-09			30.1JB			**12.6B**		9.35JB			7.1J		3.05JB			**4.21JB**	77.9B
TB-1a deep	11-May-10	0.553J		13J			**19.5**		3.25J			3.51J	1.07J				**8.23J**	22.4
TB-1a deep	25-Oct-10	0.785J		7.98J			**11.4**		1.83J			1.92J					**6.13J**	7.70J
MW-33	6-Aug-98					**5.8**	46	18									**73**	110
MW-33	7-Dec-98					**2.7**	18											
MW-33	26-Apr-99						15.5											58.5
MW-33	2-Dec-99						18.1											61
MW-33	13-Apr-00																	
MW-33	18-Apr-01																	
MW-33	9-Apr-02																	
MW-33	16-Apr-03					1.2	26.9	11.8									**47.1**	71.5
MW-33	21-Apr-04						10.5											
MW-33	22-Apr-05			660	3		**54**	18		**32**							**92**	885
MW-33	14-Apr-06				3		47	15		**27**							**80**	669
MW-33	20-Apr-07						19		14								**30**	**1165**
MW-33	15-May-08			54.9J			20.2		14.6	5.11J		6.9J		4.47J		**10.7**	**19.2J**	31.1
MW-33	12-Mar-09			21.9J			4.58J		1.88JB	4.65J							**7.79JB**	5.35J
MW-33	12-May-10			100			**44.7**	14.4	30	3.13J		16.5J					**68.1**	90.9
MW-34	6-Aug-98				**4.9**	**8.4**	43	20				64					**110**	180
MW-34	7-Dec-98					**2.2**	14											59
MW-34	26-Apr-99																	73.2
MW-34	2-Dec-99																	
MW-34	13-Apr-00																	
MW-34	18-Apr-01																	
MW-34	9-Apr-02																	
MW-34	16-Apr-03																	
MW-34	21-Apr-04															**10.3**		
MW-34	22-Apr-05			1108	**10**	1.0	29			**33**							**74**	439
MW-34	13-Apr-06																	
MW-34	20-Apr-07																	16
MW-34	19-May-08			121			11.7		12.3		0.191J	5.43J		4.19J			**8.81J**	23
MW-34	12-Mar-09			73J			3.78J		3.8JB		0.121J						**12.7JB**	12.2
MW-34	12-May-10		4.96J	393	1.63	0.50J	**47.5**	14.5	63.2	13	0.246	31.3J				0.127J	**99.6**	129

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-34d	6-Aug-98																	
MW-34d (dup)	6-Aug-98																	
MW-34d	7-Dec-98																	
MW-34d	26-Apr-99																	
MW-34d	2-Dec-99																	
MW-34d	13-Apr-00																	
MW-34d	18-Apr-01																	
MW-34d	9-Apr-02						12.5											
MW-34d	16-Apr-03																	
MW-34d	21-Apr-04																	
MW-34d	22-Apr-05																	
MW-34d	13-Apr-06					**4.0**												
MW-34d	20-Apr-07																	
MW-34d	19-May-08			27.4J			10.1		3.95J	5.49J				4.46J				
MW-34d	12-Mar-09			21.5J			4.48J		2.29JB							**5.78**	**8.27JB**	18
MW-34d	11-May-10			23.1J		0.396J	8.78J		13.5								1.52J	20.3
MW-35	6-Aug-98				**4.3**	**9.8**	47	30				52					**120**	130
MW-35	7-Dec-98					**4.6**	22	15				79					**43**	74
MW-35	26-Apr-99							13										
MW-35	2-Dec-99																	
MW-35	13-Apr-00																	
MW-35	18-Apr-01																	
MW-35	9-Apr-02																	
MW-35	16-Apr-03																	
MW-35	21-Apr-04																	
MW-35	22-Apr-05				**5**		19			**18**							**52**	134
MW-35	13-Apr-06				2		10											
MW-35	20-Apr-07			316	**6**	1.0	39	10	55	**19**							**109**	149
MW-35	19-May-08	0-Jan-00		49.5J			5.40J		6.03J					4.43J		**11.7**		8.04J
MW-35	10-Mar-09			34J										1.42JB		**8.59J**		
MW-35	12-May-10			109	0.648J		**16.2**	9.60J	22.7	3.21J		8.98J					**42.9**	44.9
MW-36	4-Dec-08			159B			**52.3B**	21.9	57.5B	13.6	0.13JB	24.2J	9.10J				**81.6**	47.1
MW-36	10-Mar-09			107			**13**	5.23J	19.1			5.71J		1.56JB			**27.2**	11.5
MW-36	4-Dec-09			71.1JB			4.21JB		8.25JB	9.4JB				2.78JB			**3.72JB**	4.9JB
MW-36	12-May-10			96.9J			**18.3**	7.48J	18.9			7.38J					**24.0J**	23.3
MW-36	26-Oct-10			46.0J			5.94J	**1.58J**	6.28J			2.01J					**7.32J**	12.2
MW-36d	4-Dec-08			102B			**70.4B**	6.46J	32.8B	4.12J	0.13JB	20.0J				**7.59**	**37**	55.6
MW-36d	10-Mar-09			39.8J			18.1		11.6	3.94J		9.35J		1.87JB			**16.6J**	
MW-36d	2-Dec-09			54J			**26**		11.6B			15.9J					**10.7JB**	4.16JB
MW-36d	13-May-10			105			**30.6**	5.53J	32.4	2.42J		13.6J					**32.2**	25
MW-36d (dup)	13-May-10			126		0.374J	**44.2**	7.51J	43	2.67J		18.7J				0.167J	**41.3**	34.4
MW-36d	27-Oct-10	0.269J		79.9J			**69.2**	**2.30J**	20.3	2.50J		32.6J					**20.7J**	12.3

Notes:
All units are in micrograms per liter (parts per billion)
- Concentration exceeds NC Groundwater Standards (2L)
- Indicates result below detection limits
* - Groundwater Protection Standard
NS - Not Sampled; NE - Standard Not Established; dup - Duplicate Sample
J - Indicates the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Reporting Limit (SWSL)
B - Indicates that the amount detected in the method blank was greater than the Method Detection Limit
MW-27 was abandoned on November 24, 2008 in accordance with 15A NCAC 2C .0113
MW-36/36d installed November 2008
Monitoring wells MW-28, -28d, -33, -34, -34d, and -35 sampled yearly during the spring event

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-11	15-Apr-94																																						
MW-11	11-May-94																																						
MW-11	25-Aug-94																																						
MW-11	29-Sep-94																																						
MW-11	13-Jun-95																																						
MW-11	28-Sep-95																																						
MW-11	31-Oct-95																																						
MW-11	22-Mar-96																																						
MW-11	27-Nov-96																																						
MW-11	22-Apr-97																																						
MW-11	31-Oct-97																																						
MW-11	11-May-98																																						
MW-11	8-Dec-98																																		24				
MW-11	14-Apr-99																																						
MW-11	30-Nov-99																																						
MW-11	5-Apr-00																																						
MW-11	18-Dec-00																																						
MW-11	18-Apr-01																																						
MW-11	27-Nov-01																																						
MW-11	5-Apr-02																																						
MW-11	5-Nov-02																																						
MW-11	15-Apr-03																																						
MW-11	30-Oct-03																																						
MW-11	21-Apr-04																																						
MW-11	18-Nov-04																																						
MW-11	21-Apr-05																																						
MW-11	11-Nov-05																																						
MW-11	14-Apr-06																																						
MW-11	10-Nov-06																																						
MW-11	20-Apr-07																																						
MW-11	8-Nov-07																																						
MW-11	15-May-08																																						
MW-11	10-Nov-08									0.12J																													
MW-11	11-Mar-09									0.14J																		0.11J											
MW-11	3-Dec-09									0.14J																													
MW-11	12-May-10																																						
MW-11	26-Oct-10																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-11d	31-Oct-95																																						
MW-11d	22-Mar-96																																						
MW-11d	27-Nov-96																																						
MW-11d	22-Apr-97																																						
MW-11d	31-Oct-97																																						
MW-11d	11-May-98																																						
MW-11d	8-Dec-98																																						
MW-11d	14-Apr-99																																						
MW-11d	30-Nov-99																																		20				
MW-11d	5-Apr-00																																						
MW-11d	18-Dec-00																																						
MW-11d	18-Apr-01																																						
MW-11d	27-Nov-01																																						
MW-11d	5-Apr-02																																						
MW-11d	5-Nov-02																																						
MW-11d	15-Apr-03																																						
MW-11d	30-Oct-03																																						
MW-11d	21-Apr-04																																						
MW-11d	18-Nov-04																																						
MW-11d	21-Apr-05																																						
MW-11d	11-Nov-05																																						
MW-11d	14-Apr-06																																						
MW-11d	10-Nov-06																																						
MW-11d	20-Apr-07																																		24.5				
MW-11d	8-Nov-07																																						
MW-11d	15-May-08									0.31J																													
MW-11d	10-Nov-08									0.22J																													
MW-11d	16-Mar-09									0.28J																									0.999J				
MW-11d	4-Dec-09									0.29J																													
MW-11d	13-May-10																																						
MW-11d	27-Oct-10																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-5	6-Mar-94		4.9												150		0.84	2.1					17				6.3		5.3	14	9.2		2	3.23					
MW-5	15-Apr-94		4.2						35.7		5.7				99.6	1.1	1.2	1.5					11.7				6.3			11.8	17.9								
MW-5	11-May-94		2.4						24		5.7				74		1.1						11				4.9	2		8.2	26								
MW-5	31-May-94		3.1							0.6					47		1.2	1.2									5.4		7.2	8.1				2.72					
MW-5	10-Jun-94		2.8						24.5						71.8		1.4	1.2									3.6		7.6	7.1									
MW-5	30-Sep-94		1.9						18.7						41.6												4.6		8.9										
MW-5	13-Jun-95		10						48					22				8	196								10			19									
MW-5	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	31-Oct-95		9						61						230			14					18							11									
MW-5 (dup)	31-Oct-95		9						53						210			14					15				9			16									
MW-5	30-Jan-96		10						50					16	198			23									7			17									
MW-5	28-Nov-96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	22-Apr-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	1-Nov-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	6-May-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	8-Dec-98		7.9						20			6.0		10	74			15					79				11			17				6.5					
MW-5	16-Apr-99		8						22						87			42					100				6			14									26
MW-5	2-Dec-99		6												60			72									6			16									
MW-5	11-Apr-00		6						14			11.0			70			34									10			22		140							
MW-5	20-Dec-00														39			17												14									
MW-5	16-Apr-01											7.0			44			29												17									
MW-5	3-Dec-01														31			20												12									
MW-5	12-Apr-02											7.0			32			33												16									
MW-5	5-Nov-02								10			6.0			26			31												15									
MW-5	17-Apr-03											14.0			24			44												11									
MW-5	4-Nov-03	540										8												360															
MW-5	4-Nov-03	490										8												360															
MW-5	14-Apr-04																											1000											
MW-5	18-Nov-04																	`																					
MW-5	21-Apr-05																																						
MW-5	11-Nov-05								6	9.2																													
MW-5	14-Apr-06																																						
MW-5	9-Nov-06								8.6	5.8																													
MW-5	19-Apr-07								6.7	6.8																													
MW-5	8-Nov-07		4.9					5.9	20.5	8.8																				2.6			13						
MW-5R	21-Apr-04											16.5			13.1			56.2																					
MW-5R	21-May-08		0.34J					1.00J	0.67J			6.17			0.8J			4.22J					0.24J							0.26J									
MW-5R	10-Nov-08		0.23J					0.63J				5.49			0.61J			1.95J					0.23J							0.13J									
MW-5R	11-Mar-09											0.91J																											
MW-5R	3-Dec-09											0.51J						0.09J																					
MW-5R	12-May-10											2.1			0.57J			0.53J																					
MW-5R	25-Oct-10										0.51J	2.5																											

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-6	6-Mar-94		1.7							0.83					34								37				3.4		5.9	4.6	3.9			2.42					
MW-6	15-Apr-94								8.5		1.2				12.5								21				1.9			2.1	2.6								
MW-6	11-May-94								18.4		1.2				28.7								64.2				2.3			4.9	2.6								
MW-6 (dup)	1-Jun-94		3.7							4.3					50								130				7		14	7.5	11			16.6					
MW-6	25-Aug-94								22						36								79.8																
MW-6	29-Sep-94		2						18		66				34								6.1				3		1.4										
MW-6	13-Jun-95								19						28								61							6									
MW-6	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	31-Oct-95								22						32								56							6									
MW-6	30-Jan-96		6						37						61															11									
MW-6	29-Nov-96								34						41								91							16									
MW-6	22-Apr-97		5.4						37						29			6.7					88							15									
MW-6	2-Nov-97		6.1						28						28			7.8					90				5.2			16									
MW-6	6-May-98								29						34			13					140							17									
MW-6 (dup)	6-May-98								30						35			14					140							19									
MW-6	8-Dec-98								26						40			14					180							19									
MW-6	16-Apr-99		5						16						26								110							11									
MW-6	2-Dec-99														12			7					67							6									
MW-6	11-Apr-00														12			7					63							6									
MW-6	19-Dec-00														6								20																
MW-6	16-Apr-01														8			6					46																
MW-6	3-Dec-01																	6																					
MW-6	12-Apr-02														7			5					26																
MW-6	5-Nov-02																	5					10																
MW-6	17-Apr-03																																		13				
MW-6	4-Nov-03																	6																					
MW-6	14-Apr-04																	5.7																					
MW-6	18-Nov-04																																						
MW-6	21-Apr-05																																						
MW-6	11-Nov-05																																						
MW-6	14-Apr-06																																						
MW-6	9-Nov-06																																						
MW-6	19-Apr-07																																						
MW-6	8-Nov-07		3.3									7.4																					3.4						
MW-6	20-May-08		3.85					1J	3.85J			2.07			1.22J			2.3J					0.62J					0.14J		0.9J			3.29		2.17J	1.86J		1.06J	
MW-6	11-Nov-08		4.12					1.29J	3.90J			2.72		0.33J	1.27J			2.22J					1.08					0.20J		0.98J			4.01						
MW-6	11-Mar-09		3.3					1.22J	2.43J			2.02			0.75J			2.21J										0.11J		0.71J			3.61						
MW-6	3-Dec-09		2.56					1.7J	1.79J			1.78			0.79J			1.49J					0.28J					0.14J		0.6J			2.24						
MW-6	12-May-10	6.5J	1.3					2.8J				2.80			0.95J			1.7J															3.0						
MW-6	7-Jul-10		3.9					2.3J	2.3J			2.70			0.85J			1.5J															2.6						
MW-6	29-Jul-10		3.7					2.6J	2.0J			3.20			0.86J			1.1J															2.5						
MW-6	13-Aug-10		4.3					2.5J	2.1J			3.00			0.97J			1.3J															2.5						
MW-6	26-Oct-10		4.5					2.3J				3.00			1.0J			1.3J																					

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-6d	8-Jun-01														8			6																					
MW-6d	4-Dec-01																																						
MW-6d	9-Apr-02																																						
MW-6d	7-Nov-02																																						
MW-6d	16-Apr-03																																						
MW-6d	4-Nov-03																																						
MW-6d	21-Apr-04																																						
MW-6d	18-Nov-04																																						
MW-6d	21-Apr-05																																						
MW-6d	11-Nov-05																																						
MW-6d	11-Apr-06																																						
MW-6d	9-Nov-06																																						
MW-6d	20-Apr-07																																						
MW-6d	8-Nov-07																																						
MW-6d	20-May-08									0.49J				3.04J	5.7			0.85J					0.34J				0.71J			0.91J	0.91J								
MW-6d	6-Nov-08		0.23J							0.57J		0.44J		2.76J	**6.12**			1.10J					0.77J				**1.06**			1.13	1.10								
MW-6d (dup)	6-Nov-08		0.25J							0.61J		0.45J		2.69J	**6.16**			1.00J					0.68J				**1.08**			1.13	0.99J								
MW-6d	12-Mar-09									0.43J				1.47J	3.24J			0.54J					0.33J				**0.77J**			0.49J	0.55J								
MW-6d	3-Dec-09									0.58J		0.28J		1.86J	5.51			0.9J					0.42J				0.69J			0.86J	0.75J								
MW-6d	12-May-10									0.92J				1.9J	**6.2**			1.1J					0.81J				**0.70J**			0.77J	0.79J								
MW-6d	7-Jul-10		0.42J							0.91J		0.55J		2.9J	**8**			1.9J					0.78J				**0.97J**			1.2	1.1								
MW-6d	29-Jul-10									1.0J		0.68J			**7.6**			1.5J									**1.2**			1.3	1.4								
MW-6d	13-Aug-10									1.1J		0.61J			**7.8**			1.7J					1.1				**1.2**			1.3	1.1								
MW-6d	27-Oct-10									1.2J		0.67J		3.0J	5.2			1.2J									**0.81J**			1.1	1.0								

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-7	6-Mar-94																																						
MW-7	15-Apr-94																																						
MW-7	11-May-94																																						
MW-7	31-May-94																																						
MW-7	25-Aug-94																																						
MW-7	29-Sep-94																																						
MW-7	13-Jun-95																																						
MW-7	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	31-Oct-95								11						5																								
MW-7	30-Jan-96																																						
MW-7	29-Nov-96								22						**9**			2									4			**5**									
MW-7	21-Apr-97								19						**11**			5.9																					
MW-7	1-Nov-97								26						**10**			6.2																					
MW-7	6-May-98								24						**17**			21																					
MW-7	8-Dec-98		**7.2**						32						**20**			36					**12**							**5.2**									
MW-7	16-Apr-99								21						**14**			24																					
MW-7	2-Dec-99														**9**			16																					
MW-7	11-Apr-00														**8**			17																					
MW-7 (dup)	11-Apr-00														**8**			17																	**16**				
MW-7	19-Dec-00														5			10																					
MW-7 (dup)	19-Dec-00														**6**			12																					
MW-7	16-Apr-01														**6**			13																	**16**				
MW-7	4-Dec-01																																						
MW-7	9-Apr-02																	7																					
MW-7	6-Nov-02																	12																					
MW-7	16-Apr-03																	24																					
MW-7	5-Nov-03																	15																					
MW-7	21-Apr-04																	18.3																					
MW-7 (dup)	21-Apr-04																	19.9																					
MW-7	18-Nov-04																	16.4																					
MW-7	21-Apr-05																	26																					
MW-7	11-Nov-05																	12.2																					
MW-7	14-Apr-06																	19.3																					
MW-7	9-Nov-06																	27.2																					
MW-7	20-Apr-07																	24.3															**5.4**						
MW-7	8-Nov-07		**3.5**									2.7						22.3															**7.7**						
MW-7	15-May-08		**1.61**					0.24J				0.77J	0.15J		0.44J			7.68															**2.74**		0.907J				
MW-7	5-Nov-08		**1.04**					0.14J				0.83J	0.16J	1.10J	0.25J			3.14J										0.15J					**2.09**						
MW-7	10-Mar-09		**1.56**					0.20J				1.17		1.34J				3.40J										0.68J					**2.73**	0.96J	2.36J				
MW-7	2-Dec-09		**1.37**					0.2J	0.62J			1.13	0.23J	0.69J	0.32J			2.24J										0.3J					**1.82**	0.48J					
MW-7 (dup)	2-Dec-09		**1.38**					0.22J	0.59J			1.11	0.23J	0.76J	0.29J			2.34J										0.32J					**1.93**	0.45J					
MW-7	13-May-10		**2.1**									2			0.46J			1.8J															**3.1**	0.50J					
MW-7	27-Oct-10		**2.3**					0.42J				2.5	0.72J		0.61J			1.6J										0.49J					**2.9**	1.2J					

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-8	6-Mar-94		6.8							2.2		3.2			13	1	1.3	7.6			0.56		450				7.5	4	18	16	7.3		0.76	35.6					
MW-8	15-Apr-94		7.9						39.8	1.3	8.8	4.9			88.6	1.8	1.5	8.9		3	1.4		310				8.1	5		17.5	5.1			39.7					
MW-8	11-May-94		5.6						34						83								278				7			15				27.1					
MW-8	31-May-94		12							1.1		13			110	2.6	1.6	23					310			3.1	16	11	16	29	4.4			89					
MW-8	25-Aug-94								51.3						109								400											32					
MW-8	30-Sep-94		5.8						35		12.2	5.2			86			5.6					300						8.9	13				22.8					
MW-8	13-Jun-95								15						36								47							6				19					
MW-8	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	31-Oct-95		8						40	8				8	72			23			32		137				9			14									
MW-8	30-Jan-96		10						37					10	71			34					123				18			23				58	20				
MW-8	29-Nov-96		4			8			15			3		5	18			24					23				13		1	12				13					
MW-8	21-Apr-97														10			20					16				8.3			8.1					8				
MW-8	2-Nov-97														6.3			22												5.2									
MW-8	6-May-98		5.7												15			56					13				7.8			8.7				6.1					
MW-8	8-Dec-98														7.9			37												5.2									
MW-8	16-Apr-99											6			13			55												6									
MW-8 (dup)	16-Apr-99														10			41																					
MW-8	2-Dec-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	11-Apr-00																	12																					
MW-8	20-Dec-00																																						
MW-8	16-Apr-01																																						
MW-8	3-Dec-01																																						
MW-8	12-Apr-02																																						
MW-8	5-Nov-02																																						
MW-8	17-Apr-03																																		10				
MW-8	4-Nov-03																	12																					
MW-8	14-Apr-04																	7.9																					
MW-8	18-Nov-04																	7.9																					
MW-8	21-Apr-05																																						
MW-8	11-Nov-05																																						
MW-8	14-Apr-06																																						
MW-8	9-Nov-06																																						
MW-8	20-Apr-07																	18.9																					
MW-8	8-Nov-07																	6.6																					
MW-8	20-May-08		0.19J					0.16J		0.38J		0.16J			0.96J			14.2					0.76J				0.28J			0.39J									
MW-8	10-Nov-08		0.14J							0.39J					0.58J								1.17				0.17J	0.11J		0.23J									
MW-8	11-Mar-09		0.20J					0.19J		0.32J					0.61J			6.84					0.30J																
MW-8	3-Dec-09		0.22J							0.35J					0.62J			8.04					0.45J				0.13J			0.25J			0.44J						
MW-8	12-May-10											0.40J			1.0J			19					0.78J										**0.84J**						
MW-8	25-Oct-10		0.41J												1.0J			56					0.69J							0.58J									

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-8d	8-Jun-01																																						
MW-8d	4-Dec-01																																						
MW-8d	9-Apr-02																																						
MW-8d (dup)	9-Apr-02																																						
MW-8d	7-Nov-02																																						
MW-8d	16-Apr-03																																						
MW-8d	4-Nov-03																																						
MW-8d	21-Apr-04																																						
MW-8d	18-Nov-04																																						
MW-8d	21-Apr-05																																						
MW-8d	11-Nov-05																																						
MW-8d	14-Apr-06																																						
MW-8d	10-Nov-06																																						
MW-8d	20-Apr-07																																						
MW-8d	8-Nov-07																																						
MW-8d	15-May-08									0.28J					0.17J			0.07J																					
MW-8d	6-Nov-08									0.31J													0.62J																
MW-8d	16-Mar-09									0.39J					0.14J			0.07J									0.44J												
MW-8d	4-Dec-09									0.36J					0.14J			0.08J																					
MW-8d	13-May-10									0.45J																													
MW-8d	27-Oct-10									0.61J																													

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-9	6-Mar-94		5.3							5.8		1.6			100		1.3				0.73		680				6.6	6	7	8.7	4.2		0.96	15.2					
MW-9	15-Apr-94		5.6						14.1	4.9	7.3	2.4			96.8		1.8	0.7					357				8.2	1.6		12.4	3.6			17.3					
MW-9	11-May-94		6.8							5	20.1				134								357				7.6			13				20.5					
MW-9	31-May-94		8.2							6.6		3.4			170		1.7						460				8.8	1.7	8.7	14	3.6			23.3					
MW-9	25-Aug-94														165								558																
MW-9	29-Sep-94		7							5.1					131								400				8.2		6.5					16					
MW-9	13-Jun-95		11						20					28	203								258				11		7	23				8					
MW-9	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	31-Oct-95		15						29					44	310								278				14			27				14					
MW-9	30-Jan-96		14						22		11			33	270												8			23				6					
MW-9	29-Nov-96		22												280															31									
MW-9	22-Apr-97		24											16	220															28				14.2					
MW-9	2-Nov-97													32	200																								
MW-9	6-May-98		17											31	210												13			32									
MW-9	8-Dec-98		14											53	200												13			31					20				
MW-9	16-Apr-99		7											49	140												7			20					12				
MW-9	2-Dec-99														120															20									
MW-9	11-Apr-00														110															20									
MW-9	20-Dec-00													25	100															18									
MW-9	16-Apr-01													20	93			6									6			15					21				
MW-9	3-Dec-01													25	100			20												5									
MW-9 (dup)	3-Dec-01													20	89			19																	22				
MW-9	12-Apr-02														97			21																					
MW-9	5-Nov-02													19	84			20																					
MW-9	17-Apr-03		5											19	100			29										6							59				
MW-9	4-Nov-03		5												83			28										13						8					
MW-9	14-Apr-04		5.86									5.5		11.8	96			27			2.5							15					6.2	7.4	28				
MW-9	18-Nov-04											5.2		13.2	73.7			6.4										6.6					26.5						
MW-9	21-Apr-05											5.2		9.5	69.6																		29.6						
MW-9	11-Nov-05											6.7		8.3	63.1																		28.8						
MW-9	14-Apr-06											6.9			47.6																		29.5						
MW-9	9-Nov-06											5.8			39.9																		23						
MW-9	19-Apr-07		4.4									8.4			44.4																		32.9						
MW-9	8-Nov-07		1.6									7.4			28.9	1														1.1			26.4						
MW-9	20-May-08		2.17					0.28J	3.53J			7.73		0.42J	28.9	0.86J		3.83J		0.9J	1.51		0.24J					1.01		0.45J	0.24J		25.6	1.69J		1.11J			
MW-9 (dup)	20-May-08		2.27					0.27J				7.42			30.3			3.62J	0.23J		1.32		0.26J					1.03		0.42J			27.7	1.10J		1.01J			
MW-9	11-Nov-08		1.74					0.20J	2.24J			6.26			21.6			3.28J			1.06		0.72J					0.60J		0.28J			19.1	0.48J					
MW-9	11-Mar-09		1.96					0.24J	2.50J			6.99			22.9			4.16J	0.15J	0.86J	1.06							0.54J		0.20J			22.1	0.77J	0.834J				
MW-9 (dup)	11-Mar-09		1.85					0.24J	2.36J			6.93			22.5			4.14J	0.13J	0.83J	1.06							0.54J		0.24J			21.5	0.89J	2.07J				
MW-9	3-Dec-09		1.58					0.22J	2.37J			6.06			18.9	0.67J		5.99	0.21J	0.8J	1.15							0.37J		0.28J			21.5	0.79J					
MW-9	12-May-10											9.5			23	0.91J		6.7		1.1	2.4				1.0J			0.62J					41	2.0J					
MW-9	26-Oct-10		1.6									8.4			17	1.2		16		1.0	0.74J												25	0.57J					

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-10	6-Mar-94		2.4							2.5					37		2.4						72				4.6		16	9.8	12			26.7					
MW-10	15-Apr-94		1.8						18.1	1.6	5.5				24.2	2.6	2.6						67.3				4.8			8				16.9					
MW-10	11-May-94		1.4						15.8	1.7	4				23	2.6	1.8						54.8				4			6.8	16.3			6.7					
MW-10	31-May-94		3.7							3.9					57		2.7						120				8.7		17	15	15			19.1					
MW-10	25-Aug-94								47.7		18.7				72						8		194				9.2		18.4		18			15					
MW-10	29-Sep-94		4.2						37.7	3.4	7.2				56.3		3.5						148						3.5	19	17.1			13.1					
MW-10	13-Jun-95		7						53		13			18	84								223				13		13	20				14					
MW-10	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	31-Oct-95								33					46	44			10					47				7		14	8	14								
MW-10	30-Jan-96		8						48		10			29	101			12									9		8	18				8					
MW-10	28-Nov-96								3						12			1					15				2			2									
MW-10	22-Apr-97		12						31					8.5	160			20					120				25			33				19.6	7.3				
MW-10	1-Nov-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	8-Dec-98														140			48					270				16			19				12					
MW-10	11-Jan-99		7						19						140			36					320				14			18					NS				
MW-10	8-Feb-99		9						24						140			41									17			21				20	NS				
MW-10 (dup)	8-Feb-99		8						20						130			38									13			17					NS				
MW-10	16-Apr-99														160			26					410												16				
MW-10	2-Dec-99														40								77				6								14				
MW-10	12-Apr-00														46			7					88				7			6									
MW-10	20-Dec-00														35								40																
MW-10	17-Apr-01														34								34																
MW-10	3-Dec-01														26								18																
MW-10	12-Apr-02														22								18																
MW-10	5-Nov-02													6	20								16				8												
MW-10 (dup)	5-Nov-02													6	21								16				9												
MW-10	17-Apr-03													5	26								22				7												
MW-10	4-Nov-03													5	26																								
MW-10	14-Apr-04													5																					189				
MW-10	18-Nov-04																	6.4																	37				
MW-10	21-Apr-05																	9.9																					
MW-10	11-Nov-05														5.7			17.6																					
MW-10	14-Apr-06																	11.9																					
MW-10	9-Nov-06														7.8			27.7																					
MW-10	19-Apr-07														6.3			7.4																	24				
MW-10	8-Nov-07																						1				1.3								21				
MW-10	20-May-08		1.16						1.03J			0.46J		0.55J	6.07		0.14J	7.13					3.69				2.34			1.81	0.17J		0.49J	0.52J	3.12J				
MW-10	11-Nov-08		2.26						1.46J			0.66J		0.83J	9.44			11.3					1.89				4.2			2.99			1.67	0.41J					
MW-10	11-Mar-09		3.53						1.50J			0.50J			8.52			22.3									4.06			4			1.70	0.65J	0.616J				
MW-10	3-Dec-09		4.32					0.09J	1.06J			0.68J		0.38J	7.58			28.8					0.42J				2.65			2.99			0.95J	0.15J					
MW-10	12-May-10		0.66J												1.7J			26									0.74J			0.71J			1.20						
MW-10	25-Oct-10	4.2J	4.0						1.7J		0.45J	0.67J		0.52J	4.4J			48									2.8			1.9			1.70						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-10d	8-Jun-01														12								16																
MW-10d	4-Dec-01														17																								
MW-10d	11-Apr-02														16																								
MW-10d	5-Nov-02														13																								
MW-10d	17-Apr-03														11																								
MW-10d	4-Nov-03														8																				13				
MW-10d	26-Apr-04														5.9																				32.4				
MW-10d	18-Nov-04																																		43				
MW-10d	21-Apr-05																																						
MW-10d	11-Nov-05																																						
MW-10d	14-Apr-06																																						
MW-10d	10-Nov-06																																						
MW-10d	20-Apr-07																																		19.9				
MW-10d	8-Nov-07																																		20				
MW-10d	20-May-08									0.3J				0.36J	2.01J			0.2J					0.71J				0.29J			0.36J									
MW-10d	6-Nov-08		0.22J				6.01J			0.21J					2.16J			0.15J					1.47				0.32J			0.37J	0.39J								
MW-10d	12-Mar-09									0.26J				0.67J	2.30J			0.18J					1.17				0.33J			0.37J					1.12J				
MW-10d	4-Dec-09									0.25J				0.56J	2.44J			0.27J					1.06				0.47J			0.48J	0.29J								
MW-10d	13-May-10													0.78J	2.5J												0.64J			0.59J									
MW-10d	27-Oct-10													1.1J	2.5J			0.69J									1.2			0.79J	0.50J								
MW-22	9-Jun-97																																						
MW-22	18-Aug-97																																						
MW-22	2-Nov-97													5.2	6.9																								
MW-22	6-May-98																																						
MW-22	8-Dec-98														8.6																								
MW-22	16-Apr-99														6																								
MW-22	2-Dec-99																																						
MW-22	12-Apr-00																																						
MW-22	20-Dec-00														9																								
MW-22	17-Apr-01														9																								
MW-22	4-Dec-01														6																								
MW-22	9-Apr-02														5																								
MW-22	6-Nov-02														5																								
MW-22	17-Apr-03																																						
MW-22	5-Nov-03																																						
MW-22	26-Apr-04																																						
MW-22	19-Nov-04																																						
MW-22	22-Apr-06																																						
MW-22	11-Nov-05																																						
MW-22	14-Apr-07																																						
MW-22	9-Nov-06																																						
MW-22	20-Apr-07																																						
MW-22	8-Nov-07																																						
MW-22	15-May-08														0.25J												0.31J								1.47J				
MW-22	6-Nov-08																						0.74J				0.32J												
MW-22	12-Mar-09														0.09J												0.66J								0.71J				
MW-22	4-Dec-09		0.15J							1.2J													0.4J				0.31J												
MW-22	12-May-10									0.83J																													
MW-22	26-Oct-10									0.94J																	0.65J												

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-23	9-Jun-97								40						86			7.6					100				9.3	16	6.4	9.1				13					
MW-23	18-Aug-97								33						93			11					85																
MW-23	2-Nov-97								26						68			11					40				5.6			6.3									
MW-23	5-May-98														6.9								10																
MW-23	8-Dec-98														7.4																				8.3				
MW-23 (dup)	8-Dec-98														9.2																								
MW-23	16-Apr-99																																						
MW-23	2-Dec-99																																						
MW-23 (dup)	2-Dec-99																																						
MW-23	12-Apr-00																																						
MW-23	20-Dec-00																																						
MW-23	17-Apr-01																																						
MW-23	4-Dec-01																																						
MW-23	11-Apr-02																																						
MW-23	6-Nov-02																																						
MW-23	17-Apr-03																																						
MW-23 (dup)	17-Apr-03																																						
MW-23	5-Nov-03																																						
MW-23	26-Apr-04																																						
MW-23	19-Nov-04																																						
MW-23	21-Apr-05																																						
MW-23	11-Nov-05																																						
MW-23	14-Apr-06																																						
MW-23	9-Nov-06																																						
MW-23	20 ap 07																																						
MW-23	8-Nov-07																																						
MW-23	15-May-08									0.17J					0.67J												0.19J								0.86J				
MW-23	6-Nov-08														0.35J								0.37J				0.13J												
MW-23	12-Mar-09														0.35J												0.48J												
MW-23	4-Dec-09														0.23J																								
MW-23	13-May-10																																						
MW-23	27-Oct-10																																						
MW-23 (dup)	27-Oct-10																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-23d	5-May-98																																						
MW-23d	8-Dec-98																																		7.8				
MW-23d	16-Apr-98																																						
MW-23d	2-Dec-99																																		10				
MW-23d	12-Apr-00																																		10				
MW-23d	20-Dec-00																																						
MW-23d	17-Apr-01																																						
MW-23d	4-Dec-01																																						
MW-23d	11-Apr-02																																						
MW-23d	6-Nov-02																																						
MW-23d	17-Apr-03																																						
MW-23d	5-Nov-03																																						
MW-23d	26-Apr-04																																						
MW-23d	19-Nov-04									6.4																													
MW-23d	21-Apr-05									6.9																													
MW-23d	11-Nov-05																																						
MW-23d	14-Apr-06																																						
MW-23d	9-Nov-06																																						
MW-23d	20-Apr-07																																						
MW-23d	8-Nov-07																																						
MW-23d	15-May-08									0.3J																													
MW-23d	6-Nov-08									0.15J																													
MW-23d	12-Mar-09									0.24J																									1.21J				
MW-23d	4-Dec-09									0.2J																													
MW-23d	13-May-10																																						
MW-23d	26-Oct-10																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-24	9-Jun-97								12						37			5.1			14		200					160		8.5				57					
MW-24	18-Aug-97														68								380					400											
MW-24	1-Nov-97														56						25		340					260						98					
MW-24 (dup)	1-Nov-97														68						33		370					340						131					
MW-24	5-May-98														42						28		240					230						112					
MW-24	8-Dec-98		12						30						85			26			23		280					140		15				93	7.7				
MW-24	16-Apr-99								19						55						13		170					46						60					
MW-24	2-Dec-99														25								43											21	11				
MW-24	12-Apr-00														42			5					39				7			7				33					
MW-24	20-Dec-00														44			5					29				8			7				21					
MW-24	16-Apr-01														34			5					18				6							12					
MW-24 (dup)	16-Apr-01														34			5					20				6							12					
MW-24	3-Dec-01														33			5					12				8							10					
MW-24	12-Apr-02														27												6							8					
MW-24	5-Nov-02														21																								
MW-24	17-Apr-03														19																				30				
MW-24	4-Nov-03														9																								
MW-24	14-Apr-04														6.5																								
MW-24	18-Nov-04																																						
MW-24	21-Apr-05																																						
MW-24	11-Nov-05									7																													
MW-24	14-Apr-06									8.5																													
MW-24	9-Nov-06									9.8																													
MW-24	19-Apr-07									11.4																													
MW-24	8-Nov-07									7.2																													
MW-24	20-May-08									14.8					0.29J								0.19J				0.38J								1.52J				
MW-24	11-Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24	12-Mar-09									10.1					0.26J												0.62J								1.69J				
MW-24	4-Dec-09				*1.48J					9.11	*422				0.2J							*2.93J					0.2J												
MW-24	13-May-10									13																													
MW-24	17-Oct-10									11																													
MW-27	4-May-98																																		7.5				
MW-27	7-Dec-98																																		6.4				
MW-27	26-Apr-99																																		20				
MW-27	3-Dec-99																																						
MW-27	12-Apr-00																																						
MW-27	18-Apr-01																																						
MW-27	12-Apr-02																																						
MW-27	17-Apr-03																																						
MW-27	26-Apr-04																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-28	1-May-98																																						
MW-28	17-Aug-98																																						
MW-28	9-Sep-98																																						
MW-28	7-Oct-98																																						
MW-28	9-Dec-98																																		12				
MW-28	12-Jan-99																																						
MW-28	9-Feb-99																																						
MW-28	19-Apr-99																																						
MW-28	3-Dec-99																																						
MW-28	12-Apr-00																																						
MW-28	18-Apr-01																																						
MW-28	12-Apr-02																																						
MW-28	17-Apr-03																																						
MW-28	26-Apr-04																																						
MW-28	22-Apr-05																																						
MW-28	14-Apr-06																																						
MW-28	20-Apr-07																																						
MW-28	19-May-08									0.39J																													
MW-28	12-Mar-09									0.39J																													
MW-28	13-May-10																																						
MW-28d	1-May-98																																						
MW-28d	17-Aug-98																																						
MW-28d	9-Sep-98																																						
MW-28d	7-Oct-98																																						
MW-28d	9-Dec-98																																		20				
MW-28d	12-Jan-99																																						
MW-28d (dup)	12-Jan-99																																						
MW-28d	9-Feb-99																																						
MW-28d	19-Apr-99																																						
MW-28d	3-Dec-99																																		94				
MW-28d	12-Apr-00																																		46				
MW-28d	18-Apr-01																																						
MW-28d	12-Apr-02																																		36				
MW-28d	17-Apr-03																																						
MW-28d	26-Apr-04																																		28.3				
MW-28d	22-Apr-05																																						
MW-28d	14-Apr-06																																						
MW-28d	20-Apr-07																																						
MW-28d	19-May-08									0.45J																													
MW-28d	12-Mar-09									0.33J																	0.42J												
MW-28d	13-May-10																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-29d	4-May-98																																						
MW-29d	17-Aug-98																																						
MW-29d	4-May-98																																						
MW-29d	17-Aug-98																																						
MW-29d	9-Sep-98																																						
MW-29d (dup)	9-Sep-98																																						
MW-29d	7-Oct-98																																						
MW-29d	9-Dec-98																																		37				
MW-29d	12-Jan-99																																						
MW-29d	9-Feb-99																																						
MW-29d	19-Apr-99																																						
MW-29d	3-Dec-99																																						
MW-29d	12-Apr-00																																						
MW-29d	19-Dec-00																																						
MW-29d	18-Apr-01																																						
MW-29d	4-Dec-01																																						
MW-29d	11-Apr-02																																						
MW-29d	6-Nov-02																																						
MW-29d	18-Apr-03																																						
MW-29d	5-Nov-03																																						
MW-29d	26-Apr-04																																						
MW-29d	19-Nov-04																																						
MW-29d	21-Apr-05																																						
MW-29d	11-Nov-05																																						
MW-29d	14-Apr-06																																						
MW-29d	10-Nov-06																																						
MW-29d	20-Apr-07																																		23				
MW-29d	9-Nov-07																																						
MW-29d	19-May-08									0.13J																									1.44J				
MW-29d	7-Nov-08																						0.37J																
MW-29d	10-Mar-09									0.12J																									0.857J				
MW-29d	2-Dec-09									0.15J																	0.21J												
MW-29d	13-May-10																																						
MW-29d	27-Oct-10																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-30	4-May-98																																						
MW-30	17-Aug-98																																						
MW-30	9-Sep-98																																						
MW-30	7-Oct-98																																						
MW-30	7-Dec-98																																						
MW-30	12-Jan-99																																						
MW-30	9-Feb-99																																						
MW-30	19-Apr-99																																						
MW-30	3-Dec-99																																						
MW-30	12-Apr-00																																						
MW-30	19-Dec-00																																						
MW-30	18-Apr-01																																						
MW-30	4-Dec-01																																						
MW-30	11-Apr-02																																						
MW-30	6-Nov-02																																						
MW-30	17-Apr-03																																						
MW-30	5-Nov-03																																						
MW-30	28-Apr-04																																						
MW-30	19-Nov-04																																		27.7				
MW-30	21-Apr-05																																						
MW-30	11-Nov-05																																						
MW-30	14-Apr-06																																						
MW-30	10-Nov-06																																						
MW-30	20-Apr-07																																						
MW-30	9-Nov-07																																						
MW-30	19-May-08									0.55J																													
MW-30	7-Nov-08									0.45J													0.21J																
MW-30	11-Mar-09									0.39J																													
MW-30	4-Dec-09	3.01J																																					
MW-30	12-May-10																																						
MW-30	26-Oct-10									0.52J																													

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-31	1-May-98																																						
MW-31	17-Aug-98																																						
MW-31	9-Sep-98																																						
MW-31	7-Oct-98																																						
MW-31	8-Dec-98																																						
MW-31	11-Jan-99																																						
MW-31	8-Feb-99																																						
MW-31	19-Apr-99																																						
MW-31	3-Dec-99																																						
MW-31	13-Apr-00									13																													
MW-31	19-Dec-00									25																													
MW-31	17-Apr-01									21																													
MW-31	6-Dec-01									54																													
MW-31	11-Apr-02									37																													
MW-31	6-Nov-02									43																													
MW-31	18-Apr-03									32																													
MW-31	5-Nov-03									48																													
MW-31	28-Apr-04									32.5																													
MW-31	18-Nov-04									26.5																													
MW-31	21-Apr-05									27.2																													
MW-31	11-Nov-05									38.2																													
MW-31	14-Apr-06									36.6																													
MW-31	9-Nov-06									26.2																													
MW-31	20-Apr-07									23.4																													
MW-31	9-Nov-07									9.9																													
MW-31	19-May-08									14.9																													
MW-31	6-Nov-08									10.1													0.15J																
MW-31	11-Mar-09									10.1																													
MW-31	4-Dec-09									4.62J																													
MW-31	12-May-10									4.9J																													
MW-31	26-Oct-10									2.6J																													

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-31d	1-May-98																																						
MW-31d	17-Aug-98																																						
MW-31d	9-Sep-98																																						
MW-31d	7-Oct-98																																						
MW-31d	8-Dec-98																																		10				
MW-31d	11-Jan-99																																						
MW-31d	8-Feb-99																																						
MW-31d	19-Apr-99																																		10				
MW-31d	3-Dec-99																																		41				
MW-31d	13-Apr-00																																						
MW-31d	19-Dec-00																																						
MW-31d	18-Apr-01									7																													
MW-31d	6-Dec-01									14																													
MW-31d	11-Apr-02									23																													
MW-31d	6-Nov-02									31																													
MW-31d	18-Apr-03									26																													
MW-31d	5-Nov-03									34																													
MW-31d	28-Apr-04									38.3																													
MW-31d	19-Nov-04									23.8																													
MW-31d	21-Apr-05									31.9																													
MW-31d	11-Nov-05									34																													
MW-31d	14-Apr-06									33.1																													
MW-31d	9-Nov-06									37.7																													
MW-31d	20-Apr-07									37.5																									23				
MW-31d	9-Nov-07									31.5																													
MW-31d	19-May-08									36.6																													
MW-31d	6-Nov-08									33																													
MW-31d	10-Mar-09									30.2																													
MW-31d	2-Dec-09									20																													
MW-31d	11-May-10									31																													
MW-31d	25-Oct-10									22																													

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-32	1-May-98																																						
MW-32	18-Aug-98																																						
MW-32	9-Sep-98																																						
MW-32	6-Oct-98																																						
MW-32	7-Dec-98																																						
MW-32	11-Jan-99																																						
MW-32	8-Feb-99																																						
MW-32	19-Apr-99																																						
MW-32	3-Dec-99																																						
MW-32	13-Apr-00																																						
MW-32	19-Dec-00																																						
MW-32	17-Apr-01																																						
MW-32	4-Dec-01																																						
MW-32	11-Apr-02																																						
MW-32	6-Nov-02																																						
MW-32	18-Apr-03																																						
MW-32	4-Nov-03																																		11				
MW-32	28-Apr-04																																						
MW-32	18-Nov-04																																						
MW-32	21-Apr-05																																						
MW-32	11-Nov-05																																						
MW-32	14-Apr-06																																						
MW-32	9-Nov-06																																						
MW-32	20-Apr-07																																						
MW-32	9-Nov-07																																						
MW-32	19-May-08																																						
MW-32	6-Nov-08																						0.47J																
MW-32	11-Mar-09																																						
MW-32	4-Dec-09				*1.65J						*455											*3.23J																	
MW-32	12-May-10																																						
MW-32	26-Oct-10																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
TB-1a	1-May-98														5.3													6.9	6.9										
TB-1a	18-Aug-98								20						39								22				7.5		9.8	7.6				23					
TB-1a	9-Sep-98								21						40								22				7.7		11	7.9				20					
TB-1a	7-Oct-98								17						35								16				8.2		11	7.1				13					
TB-1a (dup)	7-Oct-98								17						33								16				8.3		11	7.2				17					
TB-1a	9-Dec-98								14						23												5.3		8.2					11					
TB-1a	11-Jan-99								16						21												6.0		11	5.0				6					
TB-1a	8-Feb-99								15						18												7.0		10					8					
TB-1a	19-Apr-99								10						14												5.0		10					5					
TB-1a	3-Dec-99								11						19												6.0		10					9					
TB-1a	13-Apr-00								11						22												7.0		8	5.0				11					
TB-1a	20-Dec-00														13																								
TB-1a	17-Apr-01														11																								
TB-1a	3-Dec-01														7																								
TB-1a	12-Apr-02														8																								
TB-1a	5-Nov-02														9																								
TB-1a	17-Apr-03														30												7.0			6.0									
TB-1a	4-Nov-03									8					8																								
TB-1a	14-Apr-04									20.4																													
TB-1a	18-Nov-04									17.3																													
TB-1a	21-Apr-05									18.8																													
TB-1a	11-Nov-05									24.3																													
TB-1a	14-Apr-06									18.6																													
TB-1a	9-Nov-06									25.5																													
TB-1a	19-Apr-07									22.5																													
TB-1a	9-Nov-07									21.8																													
TB-1a	20-May-08			0.66J						11.5					0.21J								0.31J				0.17J												
TB-1a	11-Nov-08			0.54J						11.6					0.33J								1.1				0.16J												
TB-1a	11-Mar-09									5.6					0.33J												0.12J												
TB-1a	3-Dec-09									5.5					0.3J												0.16J												
TB-1a	12-May-10									1.3J																													
TB-1a	26-Oct-10									4.3J					0.46J												0.50J												
TB-1a deep	8-Jun-01																																						
TB-1a deep	6-Dec-01																																						
TB-1a deep	11-Apr-02																																						
TB-1a deep	6-Nov-02																																						
TB-1a deep	18-Apr-03									8																													
TB-1a deep	4-Nov-03																																		19				
TB-1a deep	28-Apr-04									22																													
TB-1a deep	18-Nov-04									17.9																													
TB-1a deep	21-Apr-05									25.6																													
TB-1a deep	11-Nov-05									30.6																													
TB-1a deep	14-Apr-06									29.1																													
TB-1a deep	10-Nov-06									35.6																													
TB-1a deep	20-Apr-07									32.4																													
TB-1a deep	9-Nov-07									26.2																													
TB-1a deep	19-May-08		0.77J							25.2													0.72J																
TB-1a deep	7-Nov-08									32.5													0.42J																
TB-1a deep	12-Mar-09									31.8																													
TB-1a deep	4-Dec-09									33.9																													
TB-1a deep	11-May-10									37																													
TB-1a deep	25-Oct-10									38																													

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-33	6-Aug-98																																						
MW-33	7-Dec-98																																						
MW-33	26-Apr-99																																						
MW-33	2-Dec-99																																						
MW-33	13-Apr-00																																						
MW-33	18-Apr-01																																						
MW-33	9-Apr-02																																						
MW-33	16-Apr-03																																						
MW-33	21-Apr-04																																						
MW-33	22-Apr-05																																						
MW-33	14-Apr-06																																						
MW-33	20-Apr-07																																						
MW-33	15-May-08																																						
MW-33	12-Mar-09																																						
MW-33	12-May-10																																						
MW-34	6-Aug-98																																						
MW-34	7-Dec-98																																						
MW-34	26-Apr-99																																						
MW-34	2-Dec-99																																						
MW-34	13-Apr-00																																						
MW-34	18-Apr-01																																						
MW-34	9-Apr-02																																						
MW-34	16-Apr-03																																						
MW-34	21-Apr-04																																						
MW-34	22-Apr-05																																						
MW-34	14-Apr-06														12.7			6.9																					
MW-34	20-Apr-07														13.8			6.2																					
MW-34	19-May-08		0.56J						1.74J	0.45J		0.95J		1.72J	15.3		0.23J	9.75					**10.7**				**2.14**		0.13J	**3.07**	0.56J			0.16J					
MW-34	12-Mar-09		0.47J						1.26J	0.37J		0.71J		1.72J	13.5		0.47J	9.34					**12.7**				**1.71**			2.67	0.68J			0.15J					
MW-34	12-May-10		0.64J						1.4J	0.70J		1.2		2.1J	**16**			8.7					**6**				**1.7**			2.9	0.96J								
MW-34d	6-Aug-98																																		7.3				
MW-34d (dup)	6-Aug-98																																						
MW-34d	7-Dec-98																																						
MW-34d	26-Apr-99																																						
MW-34d	2-Dec-99																																						
MW-34d	13-Apr-00																																						
MW-34d	18-Apr-01																																						
MW-34d	9-Apr-02														5																								
MW-34d	16-Apr-03														11																								
MW-34d	21-Apr-04														6.8																								
MW-34d	22-Apr-05														5.7																								
MW-34d	14-Apr-06																																						
MW-34d	20-Apr-07														6.9																				35				
MW-34d	19-May-08									0.21J				0.36J	1.64J			1.07J					0.2J				0.32J			0.38J	0.19J								
MW-34d	12-Mar-09														0.64J			0.62J									0.51J			0.19J					1.02J				
MW-34d	11-May-10													0.41J	3.3J			1.7J												0.59J									

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-35	6-Aug-98																																						
MW-35	7-Dec-98																																						
MW-35	26-Apr-99																																						
MW-35	2-Dec-99																																						
MW-35	13-Apr-00																																						
MW-35	18-Apr-01																																						
MW-35	9-Apr-02																																						
MW-35	16-Apr-03																																						
MW-35	21-Apr-04																																						
MW-35	22-Apr-05																																						
MW-35	14-Apr-06																																						
MW-35	20-Apr-07																																						
MW-35	19-May-08					0.55J				0.17J																	0.13J												
MW-35	10-Mar-09									0.15J				0.67J																									
MW-35	12-May-10													0.57J																									
MW-36	4-Dec-08		0.81J						0.77J	0.14J		1.46		2.25J	23.5		0.40J	7.6					0.77J				2.00			3.4	0.28J		0.84J				0.906J		
MW-36	10-Mar-09		0.86J						1.16J	0.13J		1.42		2.52J	23.4	0.36J	0.41J	7.9		0.3J			0.64J				1.62			3.22	0.38J		0.96J						
MW-36	4-Dec-09		0.68J		*1.78J				0.8J		*485	1.4		1.56J	18.6		0.33J	7.25		0.27J		*3.84J	0.46J				0.92J			2.29			0.94J						
MW-36	12-May-10		0.56J						0.45J			1.4		1.4J	17			6.5									0.86J			1.8			0.96J						
MW-36	26-Oct-10		0.45J									1.3		1.4J	14		0.42J	6.3									1.10			1.7			0.96J						
MW-36d	4-Dec-08		0.37J	0.24J						1.05J		0.28J		1.78J	10.9			3.18J					9.11				1.95	0.10J		1.5									
MW-36d	10-Mar-09		0.51J						0.74J	0.41J		0.39J		2.94J	12.4		0.28J	3.86J		0.12J			2.27				1.35			1.81	0.29J								
MW-36d	2-Dec-09		0.47J							0.4J		0.44J		1.71J	10.7		0.24J	4.2J					1.32				0.91J			1.64									
MW-36d	13-May-10		0.58J							0.50J		0.58J		2.5J	12			4.4J									1.2			1.6									
MW-36d (dup)	13-May-10		0.49J							0.51J		0.62J		2.4J	12			4.3J									1.4			1.6									
MW-36d	27-Oct-10		0.49J									0.53J		2.2J	11			5.0					0.58J							1.9									

Notes:
All units are in micrograms per liter (parts per billion)
- Concentration exceeds NC Groundwater Standards (2L)
- Indicates result below detection limits
NS - Not Sampled; NE - Standard Not Established; dup - Duplicate Sample
J - Indicates the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Reporting Limit (SWSL)
B - Indicates that the amount detected in the method blank was greater than the Method Detection Limit
MW-27 was abandoned on November 24, 2008 in accordance with 15A NCAC 2C .0113
MW-36/36d installed November 2008
MW-24 was dry during the November 2008 sampling event
Monitoring wells MW-28, -28d, -33, -34, -34d, and -35 sampled yearly during the spring event
* - Solvent contamination in HCl-preserved bottles caused elevated levels of chloromethane, bromomethane, and iodomethane to appear in several analyses during the December 2009 sampling event

Table 3c
Detected Constituents - Pesticides, Herbicides, and PCB's
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	Heptachlor	Aldrin	4,4'-DDT	DDD	Dieldrin	Endrin Aldehyde	Endosulfan I	Endrin	Dinoseb
NC2L		**0.006***	**0.019***	**0.019***	**0.03**	**0.008**	**NE**	**0.1**	**0.1**	**0.002**	**2**	**NE**	**2**	**7***
SWSL		**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.1**	**0.1**	**0.075**	**0.1**	**0.1**	**0.1**	**1**
MW-11	18-Nov-04													
MW-11	21-Apr-05													
MW-11	11-Nov-05													
MW-11	14-Apr-06													
MW-11	10-Nov-06													
MW-11	20-Apr-07													
MW-11	8-Nov-07													
MW-11	15-May-08													
MW-11	11-Mar-09													
MW-11	12-May-10													
MW-11d	18-Nov-04													
MW-11d	21-Apr-05													
MW-11d	11-Nov-05													
MW-11d	14-Apr-06													
MW-11d	10-Nov-06													
MW-11d	20-Apr-07													
MW-11d	8-Nov-07													
MW-11d	15-May-08							0.0297J				0.0096J**		
MW-11d	16-Mar-09													
MW-11d	13-May-10													
MW-5	18-Nov-04		**0.384**	**0.152**										
MW-5	21-Apr-05		**0.405**	**0.933**	0.098									
MW-5	11-Nov-05													
MW-5	14-Apr-06													
MW-5	9-Nov-06													
MW-5	19-Apr-07													
MW-5	8-Nov-07													
MW-5R	21-May-08							0.0609J				0.0752J**		
MW-5R	11-Mar-09													
MW-5R	12-May-10													
MW-6	18-Nov-04	**0.235**		**0.706**						**0.281**			0.412	
MW-6	21-Apr-05	**0.182**		**0.48**										
MW-6	11-Nov-05		**0.31**		0.053									1.72
MW-6	14-Apr-06													
MW-6	9-Nov-06													
MW-6	19-Apr-07													
MW-6	8-Nov-07		**0.062**							**0.094**				
MW-6	20-May-08		0.0233J					0.0312J**						
MW-6	11-Mar-09	**0.0743J**	**0.0437JD**	**0.0611J**		**0.0292JD**	0.104JD	0.0466JD	0.018JD		0.0574JD	0.0322JD		
MW-6	12-May-10													
MW-6d	18-Nov-04													
MW-6d	21-Apr-05													
MW-6d	11-Nov-05													
MW-6d	11-Apr-06													
MW-6d	9-Nov-06													
MW-6d	20-Apr-07													
MW-6d	8-Nov-07													
MW-6d	20-May-08													
MW-7	18-Nov-04													
MW-7	21-Apr-05													1.21
MW-7	11-Nov-05													
MW-7	14-Apr-06													
MW-7	9-Nov-06													
MW-7	20-Apr-07													
MW-7	8-Nov-07													
MW-7	15-May-08											0.0929J**		
MW-8	18-Nov-04													
MW-8	21-Apr-05	**0.132**												
MW-8	11-Nov-05													
MW-8	14-Apr-06													
MW-8	9-Nov-06													
MW-8	20-Apr-07													
MW-8	8-Nov-07													
MW-8	20-May-08													

Table 3c
Detected Constituents - Pesticides, Herbicides, and PCB's
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	Heptachlor	Aldrin	4,4'-DDT	DDD	Dieldrin	Endrin Aldehyde	Endosulfan I	Endrin	Dinoseb
NC2L		0.006*	0.019*	0.019*	0.03	0.008	NE	0.1	0.1	0.002	2	NE	2	7*
SWSL		0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.075	0.1	0.1	0.1	1
MW-8d	18-Nov-04													
MW-8d	21-Apr-05													
MW-8d	11-Nov-05													
MW-8d	14-Apr-06													
MW-8d	10-Nov-06													
MW-8d	20-Apr-07													
MW-8d	8-Nov-07													
MW-8d	15-May-08											0.0254J**		
MW-9	18-Nov-04			**0.138**	0.051									1.8
MW-9	21-Apr-05			**0.896**	**0.622**									
MW-9	11-Nov-05													1.4
MW-9	14-Apr-06				0.143									
MW-9	9-Nov-06				**0.786**									
MW-9	19-Apr-07													
MW-9	8-Nov-07			**0.06**										
MW-9	20-May-08			0.0132J								0.0368J**		
MW-9 (dup)	20-May-08													
MW-9	11-Mar-09													
MW-9 (dup)	11-Mar-09													
MW-9	12-May-10													
MW-10	18-Nov-04													
MW-10	21-Apr-05													
MW-10	11-Nov-05													
MW-10	14-Apr-06													
MW-10	9-Nov-06													
MW-10	19-Apr-07													
MW-10	8-Nov-07													
MW-10	20-May-08													
MW-10d	18-Nov-04													
MW-10d	21-Apr-05													
MW-10d	11-Nov-05													1.72
MW-10d	14-Apr-06													
MW-10d	10-Nov-06													
MW-10d	20-Apr-07													
MW-10d	8-Nov-07													
MW-10d	20-May-08											0.0234J**		
MW-22	19-Nov-04													
MW-22	22-Apr-06													
MW-22	11-Nov-05													
MW-22	14-Apr-07													
MW-22	9-Nov-06													
MW-22	20-Apr-07													
MW-22	8-Nov-07													
MW-22	15-May-08											0.124		
MW-22	12-Mar-09													
MW-22	12-May-10													
MW-23	19-Nov-04													
MW-23	21-Apr-05													
MW-23	11-Nov-05													
MW-23	14-Apr-06													
MW-23	9-Nov-06													
MW-23	20 ap 07													
MW-23	8-Nov-07													
MW-23	15-May-08													
MW-23d	19-Nov-04													
MW-23d	21-Apr-05													
MW-23d	11-Nov-05													
MW-23d	14-Apr-06													
MW-23d	9-Nov-06													
MW-23d	20-Apr-07													
MW-23d	8-Nov-07													
MW-23d	15-May-08											0.0256J**		

Table 3c
Detected Constituents - Pesticides, Herbicides, and PCB's
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	Heptachlor	Aldrin	4,4'-DDT	DDD	Dieldrin	Endrin Aldehyde	Endosulfan I	Endrin	Dinoseb
NC2L		**0.006***	**0.019***	**0.019***	**0.03**	**0.008**	**NE**	**0.1**	**0.1**	**0.002**	**2**	**NE**	**2**	**7***
SWSL		**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.1**	**0.1**	**0.075**	**0.1**	**0.1**	**0.1**	**1**
MW-24	18-Nov-04													
MW-24	21-Apr-05													
MW-24	11-Nov-05													
MW-24	14-Apr-06													
MW-24	9-Nov-06													
MW-24	19-Apr-07													
MW-24	8-Nov-07													
MW-24	20-May-08											0.017J**		
MW-28	22-Apr-05													
MW-28	14-Apr-06													
MW-28	20-Apr-07													
MW-28	19-May-08			0.0209J								0.0412J**		
MW-28	12-Mar-09													
MW-28	13-May-10													
MW-28d	22-Apr-05													
MW-28d	14-Apr-06													
MW-28d	20-Apr-07													
MW-28d	19-May-08											0.0308J**		
MW-29d	19-Nov-04													
MW-29d	21-Apr-05													
MW-29d	11-Nov-05													
MW-29d	14-Apr-06													
MW-29d	10-Nov-06													
MW-29d	20-Apr-07													
MW-29d	9-Nov-07													
MW-29d	19-May-08			0.0309J								0.0464J**		
MW-29d	10-Mar-09													
MW-29d	13-May-10													
MW-30	19-Nov-04													
MW-30	21-Apr-05													
MW-30	11-Nov-05													
MW-30	14-Apr-06													
MW-30	10-Nov-06													
MW-30	20-Apr-07													
MW-30	9-Nov-07													
MW-30	19-May-08			**0.0632**								0.155		
MW-30	11-Mar-09													
MW-30	12-May-10													
MW-31	18-Nov-04													
MW-31	21-Apr-05													
MW-31	11-Nov-05													
MW-31	14-Apr-06													
MW-31	9-Nov-06													
MW-31	20-Apr-07													
MW-31	9-Nov-07													
MW-31	19-May-08			0.0111J										
MW-31	11-Mar-09													
MW-31	12-May-10													
MW-31d	19-Nov-04													
MW-31d	21-Apr-05													
MW-31d	11-Nov-05													
MW-31d	14-Apr-06													
MW-31d	9-Nov-06													
MW-31d	20-Apr-07													
MW-31d	9-Nov-07													
MW-31d	19-May-08											0.0375J**		
MW-32	18-Nov-04													
MW-32	21-Apr-05													
MW-32	11-Nov-05													
MW-32	14-Apr-06													
MW-32	9-Nov-06													
MW-32	20-Apr-07													
MW-32	9-Nov-07													
MW-32	19-May-08											0.0492J**		

Table 3c
Detected Constituents - Pesticides, Herbicides, and PCB's
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	Heptachlor	Aldrin	4,4'-DDT	DDD	Dieldrin	Endrin Aldehyde	Endosulfan I	Endrin	Dinoseb
NC2L		**0.006***	**0.019***	**0.019***	**0.03**	**0.008**	**NE**	**0.1**	**0.1**	**0.002**	**2**	**NE**	**2**	**7***
SWSL		**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.1**	**0.1**	**0.075**	**0.1**	**0.1**	**0.1**	**1**
TB-1a	18-Nov-04													
TB-1a	21-Apr-05													
TB-1a	11-Nov-05													
TB-1a	14-Apr-06													
TB-1a	9-Nov-06													
TB-1a	19-Apr-07													
TB-1a	9-Nov-07													
TB-1a	20-May-08	0.0183J										0.0828J**		
TB-1a	11-Mar-09													
TB-1a	12-May-10													
TB-1a deep	11-Nov-05													
TB-1a deep	14-Apr-06													
TB-1a deep	10-Nov-06													
TB-1a deep	20-Apr-07													
TB-1a deep	9-Nov-07													
TB-1a deep	19-May-08											0.0595J**		
MW-33	22-Apr-05													
MW-33	14-Apr-06													
MW-33	20-Apr-07													
MW-33	15-May-08			0.00175J								0.0318J**		
MW-33	12-Mar-09													
MW-33	12-May-10													
MW-34	22-Apr-05													
MW-34	14-Apr-06													
MW-34	20-Apr-07													
MW-34	19-May-08													
MW-34d	22-Apr-05													
MW-34d	14-Apr-06													
MW-34d	20-Apr-07													
MW-34d	19-May-08											0.0145J**		
MW-35	22-Apr-05													
MW-35	14-Apr-06													
MW-35	20-Apr-07													
MW-35	19-May-08													
MW-36	4-Dec-08		**0.059**	0.0102J	0.162									
MW-36	10-Mar-09				0.186D									
MW-36	12-May-10													
MW-36d	4-Dec-08				0.0366J									
MW-36d	10-Mar-09			0.0139J	0.0259JD			0.075J						
MW-36d	13-May-10													
MW-36d (dup)	13-May-10													

Notes:
All units are in micrograms per liter (parts per billion)
- Concentration exceeds NC Groundwater Standards (2L)
- Indicates result below detection limits
* - Groundwater Protection Standard
** - Endosulfan I was also detected in the background well MW-11d and batch and equipment blanks at similar concentrations
NE - Standard Not Established
J - Indicates the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Reporting Limits (SWSL)
D - Detected but the relative percent difference is greater than 40% between results in the dual column method
MW-36/36d installed November 2008
Monitoring wells MW-28, -28d, -33, -34, -34d, and -35 sampled yearly during the spring event

Table 3d
Detected Surface Water Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Silver	Thallium	Vanadium	Zinc
NC2B		10*	NE	6.5	2	50	NE	7**	25	88	0.06**	NE	NE	50**
SWSL		10	100	1	1	10	10	10	10	50	10	5.5	25	10
SW-2	13-Jun-95													
SW-2	31-Oct-95				**2**									
SW-2	28-Nov-96		25				2							21
SW-2	21-Apr-97		29											
SW-2	5-Nov-97													
SW-2	11-May-98													
SW-2	24-Nov-98													
SW-2	14-Apr-99													
SW-2	9-Apr-02													
SW-2	16-Apr-03													
SW-2	29-Oct-03													
SW-2	8-Apr-04													
SW-2	18-Nov-04				1									
SW-2	21-Apr-05													
SW-2	11-Nov-05													
SW-2	13-Apr-06													
SW-2	9-Nov-06													
SW-2	20-Apr-07													
SW-2	7-Nov-07													
SW-2	21-May-08		28.9J			1.53J		5.97J						5.81J
SW-2	7-Nov-08		33.5JB	3.10B		4.28JB		**7.72JB**	3.62JB		**8.20JB**		15.1JB	4.51J
SW-2	16-Mar-09		52.8JB	**9.06B**		4.73JB		**8.54JB**	3.61JB		**2.01JB**	5.89	10.4JB	12.5
SW-2	2-Dec-09		16.7J	0.46J				**7.65JB**					8.31JB	7.57JB
SW-2	13-May-10		33.8J			1.05J		1.62J						4.98J
SW-2	26-Oct-10		27.2J					3.32J					2.59J	4.67J
SW-3	13-Jun-95													
SW-3	31-Oct-95													
SW-3	27-Nov-96		33				2							32
SW-3	21-Apr-97		19											
SW-3	1-Nov-97													**56**
SW-3	11-May-98													
SW-3	24-Nov-98													
SW-3	14-Apr-99													
SW-3	30-Nov-99													
SW-3	12-Apr-00													
SW-3	15-Dec-00													
SW-3	16-Apr-01													
SW-3	29-Nov-01													
SW-3	9-Apr-02													
SW-3	16-Apr-03													
SW-3	29-Oct-03					11.1								
SW-3	8-Apr-04													
SW-3	18-Nov-04													
SW-3	21-Apr-05													
SW-3	11-Nov-05													
SW-3	13-Apr-06													
SW-3	9-Nov-06													
SW-3	20-Apr-07													
SW-3	7-Nov-07				1									13
SW-3	19-May-08		28.5J			3.21J		6.36J			**4.09J**			
SW-3	6-Nov-08		40.8JB			3.41JB		5.94JB	8.95JB		**9.04JB**		6.43JB	4.79J
SW-3	16-Mar-09	3.86J	47.6JB	3.16B		5.02JB		**7.72JB**	5.76JB	5.09J	**1.89JB**	5.97	12.5JB	7.17J
SW-3	2-Dec-09		32.9J	0.49J		3.65J	2.65J	**12.1B**					14.9JB	14.3B
SW-3	11-May-10		28.2J										1.60J	4.62J
SW-3	26-Oct-10		17.6J			1.03J		4.08J					3.41J	4.15J

Table 3d
Detected Surface Water Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Silver	Thallium	Vanadium	Zinc
NC2B		**10***	**NE**	**6.5**	**2**	**50**	**NE**	**7****	**25**	**88**	**0.06****	**NE**	**NE**	**50****
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**50**	**10**	**5.5**	**25**	**10**
SW-7	7-Nov-08		50.8JB			16.0B	10.7	**20.3B**	9.63JB		**9.62JB**		19.8JB	6.33J
SW-7	16-Mar-09	3.45J	45.5JB	5.37B		4.51JB		**7.4JB**	9.39JB		**2.04JB**		14.8JB	7.09J
SW-7	2-Dec-09		21.1J	0.05J		4.8J		**7.02JB**					8.72JB	8.19JB
SW-7	13-May-10		25.0J										1.44J	
SW-7	26-Oct-10		21.6J			1.71J		4.07J					3.77J	4.95J
SW-8	7-Nov-08		26.7JB			3.14JB		**7.10JB**			**8.56JB**		7.92JB	
SW-8	16-Mar-09		44.8JB	6.11B		5.02JB		**7.51JB**	8.08JB		**1.56JB**		10.6JB	10.2
SW-8	2-Dec-09		28.1J	0.5J		2.38J		**8.11JB**					11.8JB	20.8B
SW-8	11-May-10		21.6J											
SW-8	26-Oct-10		21.6J					3.18J					3.49J	

Notes:
All units are in micrograms per liter (parts per billion)
- Concentration exceeds NC 2B Surface Water Standards for Class C Waters
- Indicates result below detection limits
* - Human Health Standard
** - Action Level Standard
NE - Standard Not Established
J - Indicates the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Reporting Limit (SWSL)
B - Indicates that the amount detected in the method blank was greater than the Method Detection Limit

Table 3e
Detected Surface Water Constituents - Volatile Organic Compounds
October 2010 Semi-Annula Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Bromodichloromethane	Bromoform	2-Butanone (MEK)	Carbon Disulfide	Chloroform	Chloromethane	Dibromochloromethane	Cis 1,2-Dichloroethene	1,1-Dichloroethane	Methylene Chloride	Tetrachloroethene	Toluene	Trichlorofluoromethane
NC2B		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	3.3*	11	NE
SWSL		100	1	3	100	1000	5	1	1	5	5	1	1	1	1
SW-2	18-Nov-04														
SW-2	21-Apr-05														
SW-2	11-Nov-05														
SW-2	14-Apr-06														
SW-2	9-Nov-06														
SW-2	19-Apr-07														
SW-2	9-Nov-07						0.2J	0.3J							
SW-2	21-May-08						0.13J								
SW-2	7-Nov-08						0.13J					0.21J			
SW-2	16-Mar-09														
SW-2	2-Dec-09														
SW-2	13-May-10														
SW-2	26-Oct-10														
SW-3	18-Nov-04														
SW-3	21-Apr-05														
SW-3	11-Nov-05														
SW-3	14-Apr-06														
SW-3	9-Nov-06														
SW-3	19-Apr-07														
SW-3	9-Nov-07	1.3J			0.9J			0.3J							
SW-3	19-May-08														
SW-3	6-Nov-08											0.25J			
SW-3	16-Mar-09														
SW-3	2-Dec-09	3.66J													
SW-3	11-May-10														
SW-3	26-Oct-10														
SW-7	7-Nov-08									0.20J	0.72J				
SW-7	16-Mar-09									0.070J	0.29J				
SW-7	2-Dec-09														
SW-7	13-May-10										0.61J				
SW-7	26-Oct-10														
SW-8	7-Nov-08										0.12J	0.20J			
SW-8	16-Mar-08														
SW-8	2-Dec-09														
SW-8	11-May-10														
SW-8	26-Oct-10														

Notes:
All units are in micrograms per liter (parts per billion)
- Concentration exceeds NC Surface Water Standards for Class C Waters
- Indicates result below detection limits
* - Human Health Standard
NE - Standard Not Established
J - Indicates the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Reporting Limit (SWSL)

Table 4
Statistically Significant Constituents Over Background
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

WELL	OCTOBER 2010 PARAMETERS STATISTICALLY OVER BACKGROUND	OCTOBER 2010 PARAMETERS EXCEEDING NC2L STANDARD
MW-11	Designated Shallow Background Well	**Cobalt*, Vanadium***
MW-11d	Designated Deep Background Well	**Antimony*, Vanadium***
MW-5R	p-Dichlorobenzene	None
MW-6	Cobalt, Benzene, p-Dichlorobenzene	Cobalt*, Benzene
MW-6d	1,1-Dichloroethane, Trichloroethene, Trichlorofluoromethane	**Antimony*, Vanadium*, Tetrachloroethene**
MW-7	Cobalt	Cobalt*, **Vanadium*,** Benzene, Vinyl Chloride
MW-8	cis-1,2-Dichloroethene	**Vanadium***
MW-8d	None	**Antimony*, Vanadium***
MW-9	Benzene, p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Vinyl Chloride	**Cobalt***, Benzene, p-Dichlorobenzene, 1,1-Dichloroethane, 1,2-Dichloroethane, 1,2-Dichloropropane, Vinyl Chloride
MW-10	Mercury, Benzene, cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene	**Antimony*, Cobalt***, Benzene, Tetrachloroethene, Vinyl Chloride
MW-10d	None	**Vanadium***, Tetrachloroethene
MW-22	Cadmium, Cobalt	Cadmium, Cobalt*, **Vanadium***
MW-23	None	**Cobalt*, Vanadium***
MW-23d	None	**Antimony*, Vanadium***
MW-24	Chloroform	**Vanadium***
MW-27	ABANDONED	ABANDONED
MW-28	NOT SAMPLED	NOT SAMPLED
MW-28d	NOT SAMPLED	NOT SAMPLED
MW-29d	None	**Vanadium***
MW-30	Chromium	Chromium, **Cobalt***, Vanadium*
MW-31	None	**Vanadium***
MW-31d	Chloroform	**Vanadium***
MW-32	None	**Cobalt*, Vanadium***
TB-1a	None	**Cobalt*, Vanadium***
TB-1a deep	Chromium, Chloroform	Chromium, **Vanadium***
MW-33	NOT SAMPLED	NOT SAMPLED
MW-34	NOT SAMPLED	NOT SAMPLED
MW-34d	NOT SAMPLED	NOT SAMPLED
MW-35	NOT SAMPLED	NOT SAMPLED
MW-36	p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene	**Cobalt*, Vanadium***, 1,1-Dichloroethane, Tetrachloroethene, **Vinyl Chloride**
MW-36d	Chromium, Copper, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Trichloroethene	Chromium, **Cobalt*, Vanadium***, 1,1-Dichloroethane

Notes:
* - Groundwater Protection Standard
Bold - Indicates a J value detection in which the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Limit (SWSL)
MW-27 was abandoned on November 24, 2008 in accordance with 15A NCAC 2C .0113
MW-28, -28d, -33, -34, 34d, and -35 are sampled semi-annually during the spring sampling event

Table 5
Geochemical Data
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen	BOD	COD	Methane (ug/l)	Ethane (ug/l)	Ethene (ug/l)	Chloride	Nitrate	Total Organic Carbon	Alkalinity (CaCO3 - Lab)	Alkalinity (CaCO3 - Field)	Sulfate (Lab)	Sulfate (Field)	Sulfide (Lab)	Free Chlorine	Carbon Dioxide	Ferrous Iron	Acetic Acid	Butyric Acid	Lactic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nM)
MW-11	8-Dec-98	156.2	5.57	6.03						3.5	0.6	2.1	21	40				0.17	50	0.02						0.02
MW-11	18-Dec-00	742	5.69																							
MW-11	18-Apr-01		6.80																							
MW-11	27-Nov-01		5.48																							
MW-11	5-Apr-02		6.19																							
MW-11	5-Nov-02		6.14																							
MW-11	15-Apr-03		6.36																							
MW-11	29-Oct-03		6.47																							
MW-11	21-Apr-04		5.31																							
MW-11	15-May-08	135.8	5.53	6.71																						
MW-11	10-Nov-08	167.0	5.74	6.71	<2	6	<7.2	<20	<20	3.67	0.794	1.42	34		<0.3		<0.01		26	<0.2	<1	<1	<25	<1	<10	
MW-11	11-Mar-09	102.5	5.34	7.16	<2	<25	<7.2	<20	<20	3.38	0.719	0.543	32.2		<0.3		<0.05		158	0.21	<1	<1	<25	<1	<10	
MW-11	3-Dec-09	246.0	5.79	6.38	2.00	92	<7.2	<20	<20	2.92	0.662	0.343J	22.5		0.381		<0.05		53	<0.2	<1	<1	<25	<1	<10	
MW-11	12-May-10	154.2	5.85	5.46	<2	23	4	<2	<2	4.20J	0.089J	2.2	27		3.80J		<0.1		83.1	0.12	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-11	26-Oct-10	65.4	5.90	6.44	<2	18	10.3	<2	<2	4.10J	0.032J	1.3	37		2.10J		<0.1		99.9	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-11d	8-Dec-98	123.0	6.03	4.68						3.0	0.58	0.64	14	60				0.02	30							
MW-11d	18-Dec-00	154	5.26																							
MW-11d	18-Apr-01		6.91																							
MW-11d	27-Nov-01		5.21																							
MW-11d	5-Apr-02		6.97																							
MW-11d	5-Nov-02		6.26																							
MW-11d	15-Apr-03		6.98																							
MW-11d	29-Oct-03		6.87																							
MW-11d	21-Apr-04		5.79																							
MW-11d	15-May-08	87.2	5.95	5.02																						
MW-11d	16-Mar-09	173.6	5.76	5.85																						

Table 5
Geochemical Data
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen	BOD	COD	Methane (ug/l)	Ethane (ug/l)	Ethene (ug/l)	Chloride	Nitrate	Total Organic Carbon	Alkalinity (CaCO3 - Lab)	Alkalinity (CaCO3 - Field)	Sulfate (Lab)	Sulfate (Field)	Sulfide (Lab)	Free Chlorine	Carbon Dioxide	Ferrous Iron	Acetic Acid	Butyric Acid	Lactic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nM)
MW-5	3-Dec-98		5.70							5.6																
MW-5	20-Dec-00	38	5.40				4500			13.4	0.07	2.7							141							
MW-5	16-Apr-01	85	5.20							8.5		8.8			6.8				141	1.07						1.07
MW-5	3-Dec-01	103	5.68				1600			5.2					1.7				79.2							
MW-5	12-Apr-02	43	5.54				2400			3.3					4.1				44	3.7						3.7
MW-5	5-Nov-02	65	5.72				1500			8.7	0.34	1.2			4.7				244							
MW-5	17-Apr-03	-138	6.08	0.79			6600			13		13.7			4.1				9							
MW-5	4-Nov-03	-142	5.60	0.14			3200			19		1474							2055	18.5						18.5
MW-5R	14-Apr-04	-35	6.30	1.92			4040			8.19		13.8			0.444		0.08		286							
MW-5R	21-May-08	95	6.02	0.14	<2	9	709	<100	<100	3.92	0.576	11.1	280		13.3		<0.01		264	<0.2	<1	<1	<25	<1	<10	1.1
MW-5R	10-Nov-08	113	6.07	0.31	<2	10	340	<20	<20	4.66	1.25	1.95	240		6.42		<0.01		211	<0.2	<1	<1	<25	<1	<10	1.6
MW-5R	11-Mar-09	61	5.73	0.31	<2	<25	<7.2	<20	<20	1.6	11.9	1.23	113		6.61		<0.05		141	<0.2	<1	<1	<25	<1	<10	2.1
MW-5R	3-Dec-09	272	5.78	0.99	<2	16	<7.2	<20	<20	1.34	12.6	2.26	61.9		7.29		<0.05		106	<0.2	<1	<1	<25	<1	<10	2.7
MW-5R	12-May-10	76	6.42	1.82	<2	<10	1	<2	<2	4.80J	0.54J	2.6	150		9.70J		<0.1		169	0.039J	<0.5	<0.5	<0.5	<0.5	<0.5	2.6
MW-5R	25-Oct-10	-64	6.34	1.05	<2	3.1J	9.72	<2	<2	3.90J	0.075J	0.93J	300		8.60J		<0.01		206	0.097	<0.5	<0.5	<0.5	<0.5	<0.5	4.2
MW-6	3-Dec-98		5.71							6.8																
MW-6	19-Dec-00	156	5.54				669			9.12	0.05	5.9							57							
MW-6	16-Apr-01	97	5.05				450			7.5		7.7			0.66				47							
MW-6	3-Dec-01	136	5.88				470			6.4					0.34				30.8							
MW-6	12-Apr-02	174	5.47				800			7.3					0.46				35							
MW-6	5-Nov-02	73	5.58				1500			11	0.36	2.1			0.74				83							
MW-6	17-Apr-03	234	5.79	0.59			2400			12	0.48	10.4			0.47				9							
MW-6	4-Nov-03	41	4.80	0.25			640			110		8.5			1.2				185							
MW-6	14-Apr-04	316	5.76	1.70			1450			190		16.6			2.2				330							
MW-6	20-May-08	115	5.94	2.41	<4	78	2740	<400	<400	185	0.19J	24.4	474		12		<0.01		466	0.22	<1	<1	<25	<1	<10	1.1
MW-6	11-Nov-08	84	6.14	1.36	2	106	1190	<200	<200	231	<0.3	30.2	750		2.51J		<0.01		541	0.59	<1	<1	<25	<1	<10	1.9
MW-6	11-Mar-09	59	5.81	0.46	3	86	1810	<200	<200	166	0.155J	22.3	476		8.4		<0.05		387	1.16	<1	<1	<25	<1	<10	3.9
MW-6	3-Dec-09	90	6.23	1.44	2	72	1560	<200	<200	175	<0.3	19.4	507		8.66		<0.05		326	2.12	<1	<1	<25	<1	<10	2.3
MW-6	12-May-10	91	6.24	1.87	<2	130	918	<2	<2	210	<0.1	30	610		15J		<0.1		543	3.75	<0.5	<0.5	<0.5	<0.5	<0.5	3.3
MW-6	26-Oct-10	-110.9	6.50	2.36	<2	120	800	<2	<2	210	0.23J	26	930		13J		<0.1		692	1.20	34	4.3	60	54	<0.5	4.3

Table 5
Geochemical Data
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen	BOD	COD	Methane (ug/l)	Ethane (ug/l)	Ethene (ug/l)	Chloride	Nitrate	Total Organic Carbon	Alkalinity (CaCO3 - Lab)	Alkalinity (CaCO3 - Field)	Sulfate (Lab)	Sulfate (Field)	Sulfide (Lab)	Free Chlorine	Carbon Dioxide	Ferrous Iron	Acetic Acid	Butyric Acid	Lactic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nM)
MW-8	3-Dec-98		5.75							7.3																
MW-8	20-Dec-00	66	5.42							6.84	0.09	5.9							22							
MW-8	16-Apr-01	54	5.61				17			3.2	0.23	1.3			0.89		0.04		32							
MW-8	3-Dec-01	111	6.40							3					0.61		0.01		39.6							
MW-8	12-Apr-02	51	6.00				42			3.5					0.81				31							
MW-8	5-Nov-02	44	6.05				11			3.4	0.42	0.7			1.1		0.06		29							
MW-8	17-Apr-03	171	6.30	1.70						4	0.33	2.3			1.1				13							
MW-8	4-Nov-03	127	5.15	1.68			22			3.9		0.7			1				44							
MW-8	14-Apr-04	235	5.86	1.58			371			3.82		2.2			0.912				52.8							
MW-8	20-May-08	63	5.83	1.42	<2	<5	631	<20	<20	5.85	0.158J	0.469J	59		5.46		<0.01		97	<0.2	<1	<1	<25	<1	<10	1.1
MW-8	10-Nov-08	55	5.84	0.26	<2	5	654	<20	<20	6.29	0.211J	0.603	60		<0.3		<0.01		101	<0.2	<1	<1	<25	<1	<10	1.4
MW-8	11-Mar-09	27	5.65	0.31	<2	<25	264	<100	<100	6.27	0.119J	0.752	68.7		0.793		<0.05		88	0.78	<1	<1	<25	<1	<10	1.1
MW-8	3-Dec-09	83	6.11	1.28	<2	20	647	<200	<200	6.09	0.256	0.749	63.5		1.07		<0.05		*	0.88	<1	<1	<25	<1	<10	2.1
MW-8	12-May-10	88	6.14	1.09	<2	9.6J	497	<2	<2	7.9	0.66J	1.3	73		2.2J		<0.1		127	0.793	<0.5	<0.5	<0.5	<0.5	<0.5	3.0
MW-8	25-Oct-10	-72	5.84	1.01	<2	14	572	<2	<2	16	0.3J	0.57J	72		3.3J		<0.1		139	0.068	<0.5	<0.5	1.7	<0.5	<0.5	4.9
MW-9	3-Dec-98		6.27							15																
MW-9	20-Dec-00	102	4.79				3340			21.9	0.09	12.3							176							
MW-9	16-Apr-01	64	5.79				790			19	0.24	5.5			0.75				121	1.28						1.28
MW-9	3-Dec-01	21	6.41				2700			24					0.38				123	2.5						2.5
MW-9	12-Apr-02	77	6.11				1200			29					0.32				136	9.8						9.8
MW-9	5-Nov-02	39	6.16				470			24		5.7			0.66				236	1.67						1.67
MW-9	17-Apr-03	-106	6.39	0.25			1900			36		30.3			0.42				44	6.3						6.3
MW-9	4-Nov-03	-110	5.76	0.14			1800			53		14.2			0.46				312	1.48						1.48
MW-9	14-Apr-04	58	6.33	0.81			3500			92.5		13.3			0.386				299.2	ND						ND
MW-9	20-May-08	-97	6.28	1.39	7	10	2980	<400	<400	20.1	<0.3	3.12	254		0.58		<0.01		260	18.3	<1	<1	<25	<1	<10	18.3
MW-9	11-Nov-08	-37	6.18	2.45	7	27	1910	<200	<200	18.9	<0.3	3.36	263		<0.3		<0.01		264	15.4	<1	<1	<25	<1	<10	
MW-9	11-Mar-09	-9	6.03	2.07	<2	46	1730	<200	<200	20.1	<0.3	4.56	262		0.608		<0.05		233	17.6	<1	0.4J	<25	0.4J	<10	
MW-9	3-Dec-09	-7	6.38	1.52	<2	44	1740	<200	<200	20.5	<0.3	2.97	233		4.31		<0.05		167	14.8	<1	<1	<25	<1	<10	
MW-9	12-May-10	38	6.19	2.20	<2	66	1150	<2	1J	27	0.076J	8.4	200		2.20J		<0.1		307	16.5	<0.5	<0.5	<0.5	2.9	<0.5	
MW-9	26-Oct-10	-71	6.30	3.54	<2	53	1330	<2	<2	21	0.053J	3.0	270		2.60J		<0.1		348	8.5	2.3	<0.5	<0.5	2.5	<0.5	

Table 5
Geochemical Data
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen	BOD	COD	Methane (ug/l)	Ethane (ug/l)	Ethene (ug/l)	Chloride	Nitrate	Total Organic Carbon	Alkalinity (CaCO3 - Lab)	Alkalinity (CaCO3 - Field)	Sulfate (Lab)	Sulfate (Field)	Sulfide (Lab)	Free Chlorine	Carbon Dioxide	Ferrous Iron	Acetic Acid	Butyric Acid	Lactic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nM)
MW-10	3-Dec-98		5.85							6.8																
MW-10	20-Dec-00	76	5.27				372			10.6	1.5	3.7							26							
MW-10	17-Apr-01	81	5.24				320			5.4	2.2	5.3			1.2				101							
MW-10	3-Dec-01	146	5.88							4.2	1.6				3				35.2							
MW-10	12-Apr-02	98	5.58				300			4.9					1.7				35							
MW-10	5-Nov-02	74	5.54				770			5.4	2	1.8			2.9		0.03		216							
MW-10	17-Apr-03	240	5.11	0.44			2400			5	1.4	9.2			0.82				13							
MW-10	4-Nov-03	90	4.90	0.16						6.6	1	1.7			0.66				145							
MW-10	14-Apr-04	349	5.83	0.52			341			7.3	1.3	7.8			0.78				123							
MW-10	20-May-08	-14.6	5.61	0.55	3	35	1950	<200	<200	3.77	0.162J	1.12	42		0.617		0.01		229	0.48	<1	<1	<25	<1	<10	0.48
MW-10	11-Nov-08	130.0	5.50	2.76	8	30	5890	<200	<200	3.71	<0.3	1.31	96		<0.3		<0.01		370	1.79	1.4	<1	<25	<1	<10	
MW-10	11-Mar-09	97.8	5.34	2.56	<2	<25	2310	<200	<200	3.04	<0.3	3.07	105		0.649		<0.05		339	1.23	<1	<1	<25	0.3J	<10	
MW-10	3-Dec-09	146.2	6.09	2.17	3	28	3110	<200	<200	2.69	<0.3	1.02	112		0.624		<0.05		286	0.95	<1	<1	<25	<1	<10	
MW-10	12-May-10	80.2	5.74	2.21	3.2	25	1830	<2	<2	5.6	<0.1	5.5	140		1.70J		<0.1		407	2.84	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-10	25-Oct-10	-39.2	5.66	2.77	2.4	31	2620	<2	<2	4.2J	<0.1	1.5	130		2.20J		<0.1		583	0.38	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-24	8-Dec-98	145.9	5.75	1.02						4.2		2.5	66	140		2		0.07	260	0.78						0.78
MW-24	20-Dec-00	67	5.61				4410			8.25	0.08	2.5							101							
MW-24	16-Apr-01	93	5.20				2500			4.2	0.28	5			0.59				121	1.18						1.18
MW-24	3-Dec-01	103	5.83				2100			2.9									52.8	0.3						0.3
MW-24	12-Apr-02	17	5.59				1800			1.5									92	0.6						0.6
MW-24	5-Nov-02	62	5.76				2200			0.56		1.6			0.48		0.01		171	0.21						0.21
MW-24	17-Apr-03	10	5.79	0.50			88			3.6	0.33	4.4			0.35				33							
MW-24	4-Nov-03	-20	4.92	0.42			17			2.9		1.7			0.46				141							
MW-24	14-Apr-04	178	6.29	2.09			139			2.94		6.2			0.42				88							
MW-24	20-May-08	101	5.84	4.56	4	<5	<7.2	<20	<20	3.6	0.273J	0.421J	39		<0.3		0.03		75	2.72	<1	<1	<25	<1	<10	2.72

Table 5
Geochemical Data
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen	BOD	COD	Methane (ug/l)	Ethane (ug/l)	Ethene (ug/l)	Chloride	Nitrate	Total Organic Carbon	Alkalinity (CaCO3 - Lab)	Alkalinity (CaCO3 - Field)	Sulfate (Lab)	Sulfate (Field)	Sulfide (Lab)	Free Chlorine	Carbon Dioxide	Ferrous Iron	Acetic Acid	Butyric Acid	Lactic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nM)
TB-1a	9-Dec-98	193.8	5.98	0.64						4.1		0.54	95	120		2		0.05	500	0.15						0.15
TB-1a	20-Dec-00	63	5.52				2470			6.6	0.09	3.3							62							
TB-1a	17-Apr-01	78	5.63				1500			5.1	0.29	2.4			0.58		0.1		99							
TB-1a	3-Dec-01	111	6.01							3.1									52.8							
TB-1a	12-Apr-02	42	5.70				990			1.6									84							
TB-1a	5-Nov-02	58	5.83				400			4.2		0.7			0.47				138							
TB-1a	17-Apr-03	163	5.82	0.54			17			6.1	0.79	8.5			0.82		0.03		4							
TB-1a	4-Nov-03	1	5.04	0.16						7.5		1.6			0.46				213							
TB-1a	14-Apr-04	257	5.36	0.94						8.47		4.8			0.577				101.2							
TB-1a	20-May-08	-102	5.94	2.22	<2	<5	<7.2	<20	<20	14.9	0.356	0.864	42		11.6		<0.01		48	0.24	<1	<1	<25	<1	0.9J	0.24
TB-1a	11-Nov-08	65	6.11	4.08	<2	50	5.1J	<20	<20	15.1	0.338	1.13	42		4.08		<0.01		106	1.59	<1	<1	<25	<1	<10	
TB-1a	11-Mar-09	-44	5.91	1.98	<2	<25	<7.2	<20	<20	12.8	0.209J	1.05	53.4		10.5		<0.05		114	3.06	<1	<1	<25	<1	<10	
TB-1a	3-Dec-09	88	6.24	1.97	<2	20	<7.2	<20	<20	12.7	0.456	1.22	61.6		11.9		<0.05		88	4.7	<1	<1	<25	<1	<10	
MW-36	12-May-10	161	5.87	1.51	<2	36	3	<2	<2	8.1	2.30J	2.9	74		5.30J		<0.1		162	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-36	26-Oct-10	-18	5.94	4.01	<2	51	307	1.52J	<2	7.2	0.19J	1.3	78		4.90J		<0.1		175	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	

Notes:

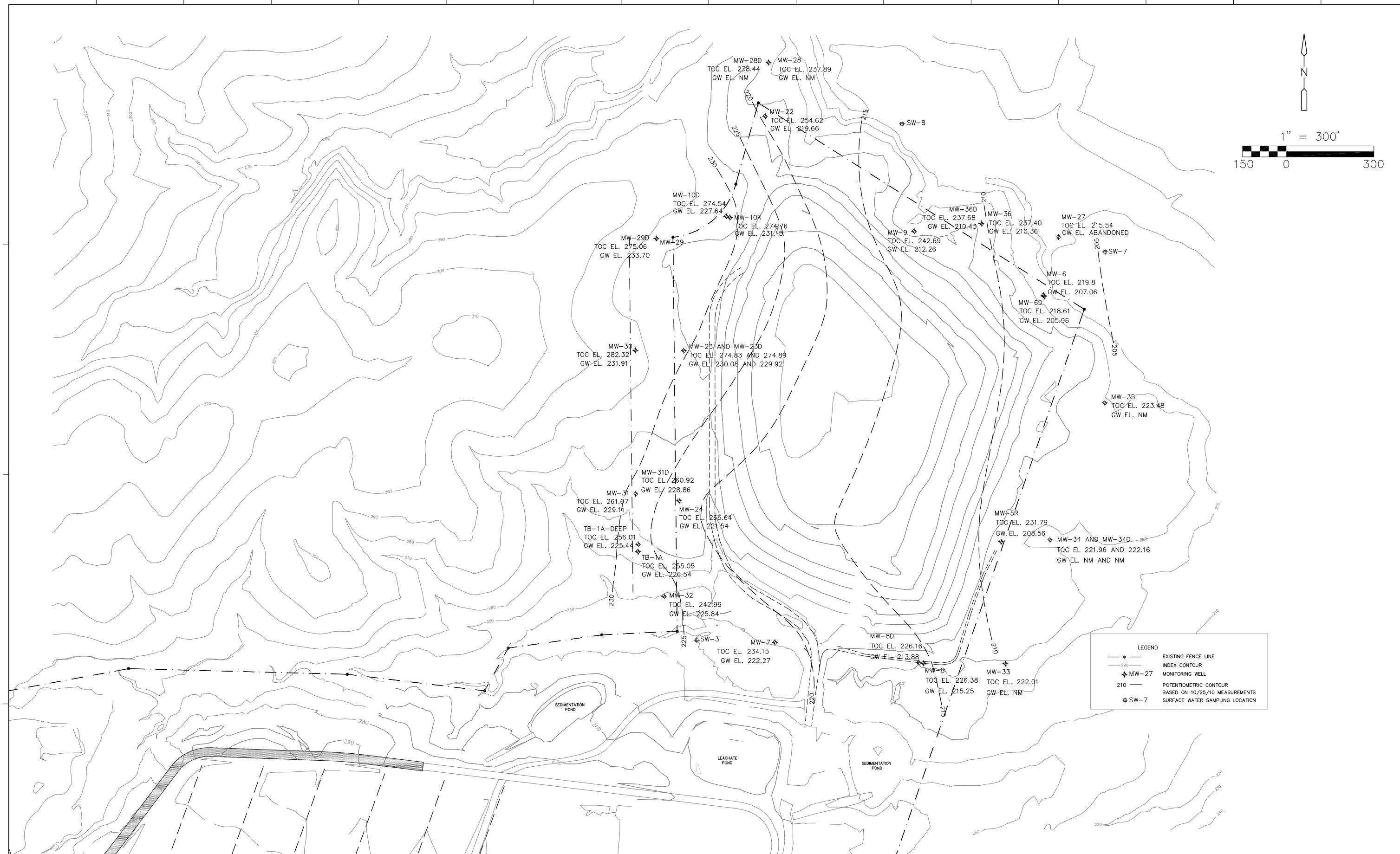
MW-11 & MW-11d are background wells for the site

All units are in milligrams per liter (parts per million), unless otherwise noted.

-Blank Cells Indicate No Data Collected

J - Indicates the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Reporting Limit (SWSL)

* Carbon dioxide samples from MW-8 were not analyzed during the December 2009 sampling event due to laboratory oversight



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. WEISPFENNING
DRAWN BY: J. KILLINGSWORTH
SHEET CHK'D BY: M. COLONE
CROSS CHK'D BY:
APPROVED BY:
DATE: DECEMBER 2010

CDM Camp Dresser & McKee
environmental services
offices worldwide
5400 Glenwood Avenue, Suite 300
Raleigh, North Carolina 27612
Tel: (919) 787-5620 Fax: (919) 781-5730

WAKE COUNTY
NORTH CAROLINA

NORTH WAKE UNLINED LANDFILL

POTENTIOMETRIC CONTOUR MAP

PROJECT NO. 6172-79664
FILE NAME: NW-Unld-F-10.dwg

FIGURE
1

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

Friday, November 12, 2010

CDM (CD004)

Attn: Aaron Weispfenning

5400 GLENWOOD AVE SUITE 300

RALEIGH, NC 27612-

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: North Wake Unlined Landfill
ENCO Workorder: C012688

Dear Aaron Weispfenning,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, October 26, 2010.

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

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

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

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

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 193.

PROJECT NARRATIVE

Client: CDM (CD004)
Project: North Wake Unlined Landfill
Lab ID: C012688/013007

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

No Comments

Other Comments

The presence of Chloromethane in samples 9209-MW5R, 9209-MW10 and 9209-TripBlank has been determined to be a laboratory artifact due to contaminant buildup in one component of the 8260B instrumentation. The contaminated part has been replaced and systems are being developed to prevent future occurences.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 9209-MW5R **Lab ID: C012688-01** **Sampled: 10/25/10 15:15** **Received: 10/26/10 13:50**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	11/22/10		11/01/10	07:34	11/2/2010 01:49
EPA 310.2	11/08/10		10/28/10	06:39	10/28/2010 10:04
EPA 353.2	10/27/10	15:15	10/27/10	06:26	10/27/2010 07:34
EPA 353.2	11/22/10		11/02/10	06:26	11/2/2010 08:22
EPA 353.2	11/22/10		11/03/10	11:54	11/3/2010 12:07
EPA 6010C	04/23/11		10/27/10	09:03	10/29/2010 14:50
EPA 6020A	04/23/11		10/27/10	09:18	11/3/2010 09:48
EPA 7470A	11/22/10		10/28/10	08:37	10/28/2010 14:10
EPA 8260B	11/08/10		11/01/10	12:24	11/1/2010 20:41
RSK-175	11/01/10		10/27/10	11:34	10/27/2010 12:48
SM 5210B	10/27/10	15:15	10/27/10	13:13	10/27/2010 13:13
SM 5220D	11/22/10		10/28/10	11:13	10/28/2010 14:36
SM18 3500-Fe D	10/25/10	15:29	10/28/10	14:09	10/28/2010 14:27
SM18 4500-S D	11/01/10		11/01/10	10:45	11/1/2010 11:10
SM18 5310B	11/22/10		11/04/10	16:18	11/4/2010 19:18
VGC-13	11/08/10		10/27/10	11:37	10/29/2010 04:22

Client ID: 9209-MW6 **Lab ID: C012688-02** **Sampled: 10/26/10 08:20** **Received: 10/26/10 13:50**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	11/23/10		11/01/10	07:34	11/2/2010 02:08
EPA 310.2	11/09/10		10/28/10	06:39	10/28/2010 10:05
EPA 353.2	10/28/10	08:20	10/27/10	06:26	10/27/2010 07:35
EPA 353.2	11/23/10		11/02/10	06:26	11/2/2010 08:24
EPA 353.2	11/23/10		11/03/10	11:54	11/3/2010 12:07
EPA 6010C	04/24/11		10/27/10	09:03	10/29/2010 14:53
EPA 6020A	04/24/11		10/27/10	09:18	11/3/2010 09:51
EPA 7470A	11/23/10		10/28/10	08:37	10/28/2010 14:12
EPA 8260B	11/09/10		11/01/10	13:05	11/1/2010 22:08
RSK-175	11/02/10		10/27/10	11:34	10/27/2010 12:52
SM 5210B	10/28/10	08:20	10/27/10	13:13	10/27/2010 13:13
SM 5220D	11/23/10		10/28/10	11:13	10/28/2010 14:36
SM18 3500-Fe D	10/26/10	08:34	10/28/10	14:09	10/28/2010 14:27
SM18 4500-S D	11/02/10		11/01/10	10:45	11/1/2010 11:10
SM18 5310B	11/23/10		11/04/10	16:18	11/4/2010 19:18
VGC-13	11/09/10		10/27/10	11:37	10/29/2010 05:25

Client ID: 9209-MW6 **Lab ID: C012688-02RE1** **Sampled: 10/26/10 08:20** **Received: 10/26/10 13:50**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	11/23/10		11/01/10	07:34	11/2/2010 08:58
RSK-175	11/02/10		10/27/10	11:34	10/27/2010 13:45

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Client ID: 9209-MW8	Lab ID: C012688-03	Sampled: 10/25/10 16:20	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	11/22/10		11/01/10	07:34	11/2/2010 03:04
EPA 310.2	11/08/10		10/28/10	06:39	10/28/2010 10:06
EPA 353.2	10/27/10	16:20	10/27/10	06:26	10/27/2010 07:35
EPA 353.2	11/22/10		11/02/10	06:26	11/2/2010 08:26
EPA 353.2	11/22/10		11/03/10	11:54	11/3/2010 12:07
EPA 6010C	04/23/11		10/27/10	09:03	10/29/2010 14:56
EPA 6020A	04/23/11		10/27/10	09:18	11/3/2010 09:55
EPA 7470A	11/22/10		10/28/10	08:37	10/28/2010 14:15
EPA 8260B	11/08/10		11/01/10	12:24	11/1/2010 21:09
RSK-175	11/01/10		10/27/10	11:34	10/27/2010 12:55
SM 5210B	10/27/10	16:20	10/27/10	13:13	10/27/2010 13:13
SM 5220D	11/22/10		11/04/10	12:28	11/4/2010 16:40
SM18 3500-Fe D	10/25/10	16:34	10/28/10	14:09	10/28/2010 14:27
SM18 4500-S D	11/01/10		11/01/10	10:45	11/1/2010 11:10
SM18 5310B	11/22/10		11/04/10	16:18	11/4/2010 19:18
VGC-13	11/08/10		10/27/10	11:37	10/29/2010 06:27

Client ID: 9209-MW9	Lab ID: C012688-04	Sampled: 10/26/10 09:45	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	11/23/10		11/01/10	07:34	11/2/2010 03:22
EPA 310.2	11/09/10		10/28/10	06:39	10/28/2010 10:07
EPA 353.2	10/28/10	09:45	10/27/10	06:26	10/27/2010 07:36
EPA 353.2	11/23/10		11/02/10	06:26	11/2/2010 08:29
EPA 353.2	11/23/10		11/03/10	11:54	11/3/2010 12:07
EPA 6010C	04/24/11		10/27/10	09:03	10/29/2010 15:00
EPA 6020A	04/24/11		10/27/10	09:18	11/3/2010 10:06
EPA 7470A	11/23/10		10/28/10	08:37	10/28/2010 14:18
EPA 8260B	11/09/10		11/01/10	13:05	11/1/2010 22:38
RSK-175	11/02/10		10/27/10	11:34	10/27/2010 12:59
SM 5210B	10/28/10	09:45	10/27/10	13:13	10/27/2010 13:13
SM 5220D	11/23/10		11/04/10	12:28	11/4/2010 16:40
SM18 4500-S D	11/02/10		11/01/10	10:45	11/1/2010 11:10
SM18 5310B	11/23/10		11/04/10	16:18	11/4/2010 19:18
VGC-13	11/09/10		10/27/10	11:37	10/29/2010 07:30

Client ID: 9209-MW9	Lab ID: C012688-04RE1	Sampled: 10/26/10 09:45	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	11/02/10		10/27/10	11:34	10/27/2010 14:23
SM18 3500-Fe D	10/26/10	09:59	10/28/10	14:09	10/28/2010 14:27

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Client ID: 9209-MW10	Lab ID: C012688-05	Sampled: 10/25/10 14:10	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	11/22/10		11/01/10	07:34	11/2/2010 03:41
EPA 310.2	11/08/10		10/28/10	06:39	10/28/2010 10:08
EPA 353.2	10/27/10	14:10	10/27/10	06:26	10/27/2010 07:39
EPA 353.2	11/22/10		11/02/10	06:26	11/2/2010 08:31
EPA 353.2	11/22/10		11/03/10	11:54	11/3/2010 12:07
EPA 6010C	04/23/11		10/27/10	09:03	10/29/2010 15:03
EPA 6020A	04/23/11		10/27/10	09:18	11/3/2010 09:30
EPA 7470A	11/22/10		10/28/10	08:37	10/28/2010 14:21
EPA 8260B	11/08/10		11/01/10	12:24	11/1/2010 21:37
RSK-175	11/01/10		10/27/10	11:34	10/27/2010 13:03
SM 5210B	10/27/10	14:10	10/27/10	13:13	10/27/2010 13:13
SM 5220D	11/22/10		11/04/10	12:28	11/4/2010 16:40
SM18 3500-Fe D	10/25/10	14:24	10/28/10	14:09	10/28/2010 14:27
SM18 4500-S D	11/01/10		11/01/10	10:45	11/1/2010 11:10
SM18 5310B	11/22/10		11/04/10	16:18	11/4/2010 19:18
VGC-13	11/08/10		10/27/10	11:37	10/29/2010 08:33

Client ID: 9209-MW10	Lab ID: C012688-05RE1	Sampled: 10/25/10 14:10	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	11/01/10		10/27/10	11:34	10/27/2010 13:52

Client ID: 9209-MW11	Lab ID: C012688-06	Sampled: 10/26/10 10:15	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	11/23/10		11/01/10	07:34	11/2/2010 04:00
EPA 310.2	11/09/10		10/28/10	06:39	10/28/2010 10:09
EPA 353.2	10/28/10	10:15	10/27/10	06:26	10/27/2010 07:40
EPA 353.2	11/23/10		11/02/10	06:26	11/2/2010 08:33
EPA 353.2	11/23/10		11/03/10	11:54	11/3/2010 12:07
EPA 6010C	04/24/11		10/27/10	09:03	10/29/2010 15:06
EPA 6020A	04/24/11		10/27/10	09:18	11/3/2010 10:10
EPA 7470A	11/23/10		10/28/10	08:37	10/28/2010 14:24
EPA 8260B	11/09/10		11/01/10	13:15	11/2/2010 03:30
RSK-175	11/02/10		10/27/10	11:34	10/27/2010 13:07
SM 5210B	10/28/10	10:15	10/27/10	13:13	10/27/2010 13:13
SM 5220D	11/23/10		11/04/10	12:28	11/4/2010 16:40
SM18 3500-Fe D	10/26/10	10:29	10/28/10	14:09	10/28/2010 14:27
SM18 4500-S D	11/02/10		11/01/10	10:45	11/1/2010 11:10
SM18 5310B	11/23/10		11/04/10	16:18	11/4/2010 19:18
VGC-13	11/09/10		10/27/10	11:37	10/29/2010 09:35

Client ID: 9209-MW22	Lab ID: C012688-07	Sampled: 10/26/10 07:20	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	04/24/11		10/27/10	09:03	10/29/2010 15:18
EPA 6020A	04/24/11		10/27/10	09:18	11/3/2010 10:13
EPA 7470A	11/23/10		10/28/10	08:37	10/28/2010 14:33
EPA 8260B	11/09/10		11/01/10	13:15	11/2/2010 04:00

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Client ID: 9209-MW30	Lab ID: C012688-08	Sampled: 10/26/10 11:35	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/24/11	10/27/10 09:03	10/29/2010 15:21
EPA 6020A	04/24/11	10/27/10 09:18	11/3/2010 10:17
EPA 7470A	11/23/10	10/28/10 08:37	10/28/2010 14:36
EPA 8260B	11/09/10	11/01/10 13:15	11/2/2010 04:29

Client ID: 9209-MW31	Lab ID: C012688-09	Sampled: 10/26/10 10:35	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/24/11	10/27/10 09:11	11/1/2010 13:44
EPA 6020A	04/24/11	10/27/10 09:18	11/3/2010 10:21
EPA 7470A	11/23/10	10/28/10 08:37	10/28/2010 14:38
EPA 8260B	11/09/10	11/01/10 13:15	11/2/2010 04:58

Client ID: 9209-MW31d	Lab ID: C012688-10	Sampled: 10/25/10 08:45	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/23/11	10/27/10 09:11	11/1/2010 12:55
EPA 6020A	04/23/11	10/27/10 09:18	11/3/2010 10:24
EPA 7470A	11/22/10	10/28/10 08:37	10/28/2010 14:42
EPA 8260B	11/08/10	11/01/10 12:24	11/1/2010 22:05

Client ID: 9209-MW32	Lab ID: C012688-11	Sampled: 10/26/10 11:10	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/24/11	10/27/10 09:11	11/1/2010 13:47
EPA 6020A	04/24/11	10/27/10 09:18	11/3/2010 10:28
EPA 7470A	11/23/10	10/28/10 08:37	10/28/2010 14:45
EPA 8260B	11/09/10	11/01/10 13:15	11/2/2010 05:27

Client ID: 9209-TB1a	Lab ID: C012688-12	Sampled: 10/26/10 10:55	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/24/11	10/27/10 09:11	11/1/2010 13:49
EPA 6020A	04/24/11	10/27/10 09:18	11/3/2010 10:31
EPA 7470A	11/23/10	10/28/10 08:37	10/28/2010 14:48
EPA 8260B	11/09/10	11/01/10 13:15	11/2/2010 05:56

Client ID: 9209-TB1ad	Lab ID: C012688-13	Sampled: 10/25/10 09:50	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/23/11	10/27/10 09:11	11/1/2010 13:52
EPA 6020A	04/23/11	10/27/10 09:18	11/3/2010 10:35
EPA 7470A	11/22/10	10/28/10 08:39	10/28/2010 16:20
EPA 8260B	11/08/10	11/01/10 13:15	11/2/2010 06:25

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Client ID: 9209-MW36	Lab ID: C012688-14	Sampled: 10/26/10 09:15	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/23/10	11/01/10 07:34	11/2/2010 04:18
EPA 310.2	11/09/10	10/28/10 06:39	10/28/2010 10:10
EPA 353.2	10/28/10 09:15	10/27/10 06:26	10/27/2010 07:41
EPA 353.2	11/23/10	11/02/10 06:26	11/2/2010 08:39
EPA 353.2	11/23/10	11/03/10 11:54	11/3/2010 12:07
EPA 6010C	04/24/11	10/27/10 09:11	11/1/2010 13:55
EPA 6020A	04/24/11	10/27/10 09:18	11/3/2010 10:39
EPA 7470A	11/23/10	10/28/10 08:39	10/28/2010 16:22
EPA 8260B	11/09/10	11/01/10 13:15	11/2/2010 06:54
RSK-175	11/02/10	10/27/10 11:34	10/27/2010 13:11
SM 5210B	10/28/10 09:15	10/27/10 13:13	10/27/2010 13:13
SM 5220D	11/23/10	11/04/10 12:28	11/4/2010 16:40
SM18 3500-Fe D	10/26/10 09:29	10/28/10 14:09	10/28/2010 14:27
SM18 4500-S D	11/02/10	11/01/10 10:45	11/1/2010 11:10
SM18 5310B	11/23/10	11/04/10 16:18	11/4/2010 19:18
VGC-13	11/09/10	10/27/10 11:37	10/29/2010 10:38

Client ID: 9209-TripBlank	Lab ID: C012688-15	Sampled: 10/25/10 08:45	Received: 10/26/10 13:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/08/10	11/01/10 12:24	11/1/2010 15:32

Client ID: 9209-MW6d	Lab ID: C013007-01	Sampled: 10/27/10 10:40	Received: 10/27/10 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/25/11	10/27/10 14:59	11/1/2010 15:19
EPA 6020A	04/25/11	10/28/10 12:26	11/3/2010 11:37
EPA 7470A	11/24/10	10/29/10 08:57	10/29/2010 15:44
EPA 8260B	11/10/10	11/02/10 13:00	11/2/2010 23:17

Client ID: 9209-MW7	Lab ID: C013007-02	Sampled: 10/27/10 07:40	Received: 10/27/10 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/25/11	10/27/10 14:59	11/1/2010 15:32
EPA 6020A	04/25/11	10/28/10 12:26	11/3/2010 11:40
EPA 7470A	11/24/10	10/29/10 08:57	10/29/2010 15:47
EPA 8260B	11/10/10	11/02/10 13:00	11/2/2010 23:46

Client ID: 9209-MW8d	Lab ID: C013007-03	Sampled: 10/27/10 10:00	Received: 10/27/10 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/25/11	10/27/10 14:59	11/1/2010 15:34
EPA 6020A	04/25/11	10/28/10 12:26	11/3/2010 11:44
EPA 7470A	11/24/10	10/29/10 08:57	10/29/2010 15:50
EPA 8260B	11/10/10	11/02/10 13:00	11/3/2010 00:15

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Client ID: 9209-MW10d	Lab ID: C013007-04	Sampled: 10/27/10 11:25	Received: 10/27/10 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/25/11	10/27/10 14:59	11/1/2010 15:38
EPA 6020A	04/25/11	10/28/10 12:26	11/3/2010 11:47
EPA 7470A	11/24/10	10/29/10 08:57	10/29/2010 15:22
EPA 8260B	11/10/10	11/02/10 13:00	11/3/2010 00:45

Client ID: 9209-MW11d	Lab ID: C013007-05	Sampled: 10/27/10 09:15	Received: 10/27/10 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/25/11	10/27/10 14:59	11/1/2010 15:41
EPA 6020A	04/25/11	10/28/10 12:26	11/3/2010 11:51
EPA 7470A	11/24/10	10/29/10 08:57	10/29/2010 15:53
EPA 8260B	11/10/10	11/02/10 13:00	11/3/2010 01:14

Client ID: 9209-MW23	Lab ID: C013007-06	Sampled: 10/27/10 07:00	Received: 10/27/10 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/25/11	10/27/10 14:59	11/1/2010 15:44
EPA 6020A	04/25/11	10/28/10 12:26	11/3/2010 11:55
EPA 7470A	11/24/10	10/29/10 08:57	10/29/2010 15:56
EPA 8260B	11/10/10	11/02/10 13:00	11/3/2010 01:43

Client ID: 9209-MW23d	Lab ID: C013007-07	Sampled: 10/26/10 17:00	Received: 10/27/10 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/24/11	10/27/10 14:59	11/1/2010 15:47
EPA 6020A	04/24/11	10/28/10 12:26	11/3/2010 11:11
EPA 7470A	11/23/10	10/29/10 08:57	10/29/2010 16:00
EPA 8260B	11/09/10	11/02/10 13:50	11/3/2010 07:04

Client ID: 9209-MW24	Lab ID: C013007-08	Sampled: 10/27/10 07:25	Received: 10/27/10 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/25/11	10/27/10 14:59	11/1/2010 15:50
EPA 6020A	04/25/11	10/28/10 12:26	11/3/2010 11:58
EPA 7470A	11/24/10	10/29/10 08:57	10/29/2010 16:03
EPA 8260B	11/10/10	11/02/10 13:50	11/3/2010 07:33

Client ID: 9209-MW29d	Lab ID: C013007-09	Sampled: 10/27/10 08:20	Received: 10/27/10 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/25/11	10/27/10 14:59	11/1/2010 15:53
EPA 6020A	04/25/11	10/28/10 12:26	11/3/2010 12:02
EPA 7470A	11/24/10	10/29/10 08:57	10/29/2010 16:06
EPA 8260B	11/10/10	11/02/10 13:50	11/3/2010 08:02

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Client ID: 9209-MW36d	Lab ID: C013007-10	Sampled: 10/27/10 11:15	Received: 10/27/10 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/25/11	10/27/10 14:59	11/1/2010 14:38
EPA 6020A	04/25/11	10/28/10 12:26	11/3/2010 12:05
EPA 7470A	11/24/10	10/29/10 08:57	10/29/2010 16:09
EPA 8260B	11/10/10	11/02/10 13:50	11/3/2010 08:33

Client ID: 9209-DUP	Lab ID: C013007-11	Sampled: 10/27/10 12:00	Received: 10/27/10 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/25/11	10/27/10 14:59	11/1/2010 15:56
EPA 6020A	04/25/11	10/28/10 12:26	11/3/2010 12:16
EPA 7470A	11/24/10	10/29/10 08:57	10/29/2010 16:18
EPA 8260B	11/10/10	11/02/10 13:50	11/3/2010 09:02

Client ID: 9209-EQBlank	Lab ID: C013007-12	Sampled: 10/27/10 09:00	Received: 10/27/10 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/25/11	10/27/10 14:59	11/1/2010 15:58
EPA 6020A	04/25/11	10/28/10 12:26	11/3/2010 12:20
EPA 7470A	11/24/10	10/29/10 08:57	10/29/2010 16:21
EPA 8260B	11/10/10	11/02/10 13:50	11/3/2010 09:31

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 9209-MW5R **Lab ID: C012688-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	2.5		1	0.38	1.0	1	ug/L	EPA 8260B	
Barium - Total	77.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	1.66		1	0.360	1.00	1	ug/L	EPA 6010C	
Carbon dioxide	206000		1	2000	2500	NE	ug/L	RSK-175	
Chemical Oxygen Demand	3100	J	1	2800	10000	NE	ug/L	SM 5220D	
Chloride	3900	J	1	18	5000	NE	ug/L	EPA 300.0	
Chloromethane	0.51	J	1	0.34	1.0	1	ug/L	EPA 8260B	
Chromium - Total	3.45	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	6.88	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	14.4		1	1.90	10.0	10	ug/L	EPA 6010C	
Methane	9.72		1	0.490	1.00	NE	ug/L	RSK-175	
Nickel - Total	2.43	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	75	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	94	J	1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	19	JB	1	5.6	100	1000	ug/L	EPA 353.2	J-01
Silver - Total	11.8		1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	8600	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Organic Carbon	930	J	1	320	1000	NE	ug/L	SM18 5310B	
Zinc - Total	25.0		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW6 **Lab ID: C012688-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.0	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	3.0		1	0.38	1.0	1	ug/L	EPA 8260B	
Acetic Acid	34000		1	83	500	NE	ug/L	VGC-13	
Antimony - Total	0.338	JB	1	0.220	2.00	6	ug/L	EPA 6020A	J-01
Barium - Total	416		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	4.5		1	0.20	1.0	1	ug/L	EPA 8260B	
Butyric Acid	4300		1	160	500	NE	ug/L	VGC-13	
Cadmium - Total	1.02		1	0.360	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	120000		1	2800	10000	NE	ug/L	SM 5220D	
Chlorobenzene	2.3	J	1	0.27	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.3	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	37.4		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	8.73	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lactic Acid	60000		1	440	500	NE	ug/L	VGC-13	
Lead - Total	9.55	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methane	800		1	0.490	1.00	NE	ug/L	RSK-175	
Nickel - Total	10.5	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	230	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	240		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	9.1	JB	1	5.6	100	1000	ug/L	EPA 353.2	J-01
Propionic Acid	54000		1	180	500	NE	ug/L	VGC-13	
Selenium - Total	3.32	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Silver - Total	9.23	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	13000	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Organic Carbon	26000		1	320	1000	NE	ug/L	SM18 5310B	
Zinc - Total	17.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW6 **Lab ID: C012688-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	692000	D	10	20000	25000	NE	ug/L	RSK-175	
Chloride	210000	D	4	72	20000	NE	ug/L	EPA 300.0	

Client ID: 9209-MW8 **Lab ID: C012688-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.0	J	1	0.33	1.0	5	ug/L	EPA 8260B	
Barium - Total	37.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.41	J	1	0.20	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.106	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.804	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Carbon dioxide	139000		1	2000	2500	NE	ug/L	RSK-175	
Chemical Oxygen Demand	14000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	16000		1	18	5000	NE	ug/L	EPA 300.0	
Chromium - Total	1.69	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	56		1	0.36	1.0	5	ug/L	EPA 8260B	
Copper - Total	7.78	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lactic Acid	1700		1	440	500	NE	ug/L	VGC-13	
Lead - Total	5.34	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methane	572		1	0.490	1.00	NE	ug/L	RSK-175	
Methylene chloride	0.69	J	1	0.53	1.0	1	ug/L	EPA 8260B	
Nitrate as N	300	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	310		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	8.3	JB	1	5.6	100	1000	ug/L	EPA 353.2	J-01
Silver - Total	4.12	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	3300	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Organic Carbon	570	J	1	320	1000	NE	ug/L	SM18 5310B	
Trichloroethene	0.58	J	1	0.38	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	1.61	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	22.9		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW9 **Lab ID: C012688-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	17		1	0.33	1.0	5	ug/L	EPA 8260B	
1,2-Dichloroethane	1.2		1	0.65	1.0	1	ug/L	EPA 8260B	
1,2-Dichloropropane	1.0		1	0.20	1.0	1	ug/L	EPA 8260B	
1,4-Dichlorobenzene	8.4		1	0.38	1.0	1	ug/L	EPA 8260B	
Acetic Acid	2300		1	83	500	NE	ug/L	VGC-13	
Arsenic - Total	3.47	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	157		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.6		1	0.20	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.207	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.695	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	53000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	21000		1	18	5000	NE	ug/L	EPA 300.0	
cis-1,2-Dichloroethene	16		1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	3.92	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	8.84	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Ethylbenzene	0.74	J	1	0.20	1.0	1	ug/L	EPA 8260B	
Lead - Total	7.02	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methane	1330		1	0.490	1.00	NE	ug/L	RSK-175	
Nickel - Total	2.80	J	1	1.80	10.0	50	ug/L	EPA 6010C	

Client ID: 9209-MW9 **Lab ID: C012688-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Nitrate as N	53	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	63	J	1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	9.8	JB	1	5.6	100	1000	ug/L	EPA 353.2	J-01
Propionic Acid	2500		1	180	500	NE	ug/L	VGC-13	
Silver - Total	5.70	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	2600	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Organic Carbon	3000		1	320	1000	NE	ug/L	SM18 5310B	
Vinyl chloride	25		1	0.30	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	0.57	J	1	0.40	1.0	5	ug/L	EPA 8260B	
Zinc - Total	20.9		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW9 **Lab ID: C012688-04RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	348000	D	10	20000	25000	NE	ug/L	RSK-175	

Client ID: 9209-MW10 **Lab ID: C012688-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	4.4	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	0.67	J	1	0.38	1.0	1	ug/L	EPA 8260B	
Acetone	4.2	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Antimony - Total	1.33	JB	1	0.220	2.00	6	ug/L	EPA 6020A	J-01
Barium - Total	18.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	4.0		1	0.20	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.300	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Biochemical Oxygen Demand	2400		1	2000	2000	NE	ug/L	SM 5210B	
Cadmium - Total	0.627	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	31000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	4200	J	1	18	5000	NE	ug/L	EPA 300.0	
Chloroethane	1.7	J	1	0.30	1.0	10	ug/L	EPA 8260B	
Chloromethane	0.45	J	1	0.34	1.0	1	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	48		1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1.53	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	8.36	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	0.52	J	1	0.38	1.0	5	ug/L	EPA 8260B	
Lead - Total	5.19	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Mercury - Total	0.241		1	0.170	0.200	0.2	ug/L	EPA 7470A	
Methane	2620		1	0.490	1.00	NE	ug/L	RSK-175	
Nickel - Total	1.89	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrite as N	10	JB	1	5.6	100	1000	ug/L	EPA 353.2	J-01
Silver - Total	3.17	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	2200	J	1	120	5000	250000	ug/L	EPA 300.0	
Tetrachloroethene	2.8		1	0.36	1.0	1	ug/L	EPA 8260B	
Total Organic Carbon	1500		1	320	1000	NE	ug/L	SM18 5310B	
Trichloroethene	1.9		1	0.38	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	1.7		1	0.30	1.0	1	ug/L	EPA 8260B	
Zinc - Total	22.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW10 **Lab ID: C012688-05RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	583000	D	10	20000	25000	NE	ug/L	RSK-175	

Client ID: 9209-MW11 **Lab ID: C012688-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	143		1	1.00	10.0	100	ug/L	EPA 6010C	
Carbon dioxide	99900		1	2000	2500	NE	ug/L	RSK-175	
Chemical Oxygen Demand	18000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	4100	J	1	18	5000	NE	ug/L	EPA 300.0	
Chromium - Total	3.50	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	5.47	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	25.8		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	5.69	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methane	10.3		1	0.490	1.00	NE	ug/L	RSK-175	
Nitrate as N	32	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	39	J	1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	7.2	JB	1	5.6	100	1000	ug/L	EPA 353.2	J-01
Sulfate as SO4	2100	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Organic Carbon	1300		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	23.0	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	42.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW22 **Lab ID: C012688-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	29.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	2.06		1	0.360	1.00	1	ug/L	EPA 6010C	
Chloroform	0.94	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	2.66	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	13.0		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	7.94	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	5.73	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrachloroethene	0.65	J	1	0.36	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	2.94	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	21.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW30 **Lab ID: C012688-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	4.15	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	155		1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	0.52	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	38.0		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	9.46	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	68.7		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	7.91	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	18.3	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	40.6		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	52.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW31 **Lab ID: C012688-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	21.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.102	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloroform	2.6	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	7.80	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.32	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	1.99	J	1	1.90	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW31 **Lab ID: C012688-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Vanadium - Total	5.48	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	31.0		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW31d **Lab ID: C012688-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.582	JB	1	0.220	2.00	6	ug/L	EPA 6020A	J-01
Barium - Total	14.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.111	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloroform	22		1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	6.56	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	7.10	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	10.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW32 **Lab ID: C012688-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	20.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	3.54	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.28	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	16.0		1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.48	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	10.7	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	21.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-TB1a **Lab ID: C012688-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.46	J	1	0.33	1.0	5	ug/L	EPA 8260B	
Barium - Total	43.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.544	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chloroform	4.3	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	4.92	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	4.77	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	27.2		1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	5.70	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrachloroethene	0.50	J	1	0.36	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	12.5	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	28.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-TB1ad **Lab ID: C012688-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.785	JB	1	0.220	2.00	6	ug/L	EPA 6020A	J-01
Barium - Total	7.98	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	38		1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	11.4		1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.83	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	1.92	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	6.13	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	7.70	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW36 **Lab ID: C012688-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	14		1	0.33	1.0	5	ug/L	EPA 8260B	

Client ID: 9209-MW36 **Lab ID: C012688-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethene	0.42	J	1	0.24	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.3		1	0.38	1.0	1	ug/L	EPA 8260B	
Barium - Total	46.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.45	J	1	0.20	1.0	1	ug/L	EPA 8260B	
Carbon dioxide	175000		1	2000	2500	NE	ug/L	RSK-175	
Chemical Oxygen Demand	51000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	7200		1	18	5000	NE	ug/L	EPA 300.0	
Chromium - Total	5.94	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	6.3		1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1.58	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	6.28	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	1.4	J	1	0.38	1.0	5	ug/L	EPA 8260B	
Ethane	1.52	J	1	1.50	2.00	NE	ug/L	RSK-175	
Methane	307		1	0.490	1.00	NE	ug/L	RSK-175	
Nickel - Total	2.01	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	190	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	200		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	7.6	JB	1	5.6	100	1000	ug/L	EPA 353.2	J-01
Sulfate as SO4	4900	J	1	120	5000	250000	ug/L	EPA 300.0	
Tetrachloroethene	1.1		1	0.36	1.0	1	ug/L	EPA 8260B	
Total Organic Carbon	1300		1	320	1000	NE	ug/L	SM18 5310B	
Trichloroethene	1.7		1	0.38	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	7.32	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.96	J	1	0.30	1.0	1	ug/L	EPA 8260B	
Zinc - Total	12.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-TripBlank **Lab ID: C012688-15**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloromethane	0.62	J	1	0.34	1.0	1	ug/L	EPA 8260B	

Client ID: 9209-MW6d **Lab ID: C013007-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	5.2		1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	0.67	J	1	0.38	1.0	1	ug/L	EPA 8260B	
Antimony - Total	3.99	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	52.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	1.2	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	2.17	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	1.2	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Copper - Total	3.76	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	3.0	J	1	0.38	1.0	5	ug/L	EPA 8260B	
Tetrachloroethene	0.81	J	1	0.36	1.0	1	ug/L	EPA 8260B	
Trichloroethene	1.1		1	0.38	1.0	1	ug/L	EPA 8260B	
Trichlorofluoromethane	1.0		1	0.28	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	4.41	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	12.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW7 **Lab ID: C013007-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.61	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.72	J	1	0.27	1.0	5	ug/L	EPA 8260B	

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Client ID: 9209-MW7								Lab ID: C013007-02	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,4-Dichlorobenzene	2.5		1	0.38	1.0	1	ug/L	EPA 8260B	
Barium - Total	66.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	2.3		1	0.20	1.0	1	ug/L	EPA 8260B	
Cadmium - Total	1.32		1	0.360	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	0.42	J	1	0.27	1.0	3	ug/L	EPA 8260B	
Chromium - Total	6.18	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	1.6	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	33.8		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	10.1		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	3.50	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	15.1	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	0.999	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Silver - Total	2.68	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Toluene	0.49	J	1	0.27	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	8.20	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	2.9		1	0.30	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	1.2	J	1	0.40	1.0	5	ug/L	EPA 8260B	
Zinc - Total	27.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW8d								Lab ID: C013007-03	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Antimony - Total	3.52	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	68.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	0.61	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	7.58	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.55	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	3.62	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.06	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	7.95	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	16.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW10d								Lab ID: C013007-04	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,1-Dichloroethane	2.5	J	1	0.33	1.0	5	ug/L	EPA 8260B	
Barium - Total	3.34	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	4.50	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	0.69	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Copper - Total	1.61	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	1.1	J	1	0.38	1.0	5	ug/L	EPA 8260B	
Tetrachloroethene	1.2		1	0.36	1.0	1	ug/L	EPA 8260B	
Trichloroethene	0.79	J	1	0.38	1.0	1	ug/L	EPA 8260B	
Trichlorofluoromethane	0.50	J	1	0.28	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	1.55	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 9209-MW11d								Lab ID: C013007-05	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Antimony - Total	1.73	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	41.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	3.56	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.79	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.82	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 9209-MW11d **Lab ID: C013007-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Zinc - Total	9.73	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW23 **Lab ID: C013007-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	50.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.562	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	8.39	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.18	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	14.2		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	7.54	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.91	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	14.0	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	20.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW23d **Lab ID: C013007-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	1.08	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	25.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.385	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	3.62	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.78	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	4.05	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	7.70	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW24 **Lab ID: C013007-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	3.63	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	50.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	11		1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	3.49	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	5.21	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	6.78	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	8.13	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	50.4		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW29d **Lab ID: C013007-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.542	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	30.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	5.46	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.91	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	2.09	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	15.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW36d **Lab ID: C013007-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	11		1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	0.53	J	1	0.38	1.0	1	ug/L	EPA 8260B	
Antimony - Total	0.269	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	79.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.49	J	1	0.20	1.0	1	ug/L	EPA 8260B	

Client ID: 9209-MW36d **Lab ID: C013007-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chromium - Total	69.2		1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	5.0		1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	2.30	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	20.3		1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	2.2	J	1	0.38	1.0	5	ug/L	EPA 8260B	
Lead - Total	2.50	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methylene chloride	0.58	J	1	0.53	1.0	1	ug/L	EPA 8260B	
Nickel - Total	32.6	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Trichloroethene	1.9		1	0.38	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	20.7	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	12.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-DUP **Lab ID: C013007-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	54.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	9.05	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	15.7		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	7.75	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.58	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	14.5	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	19.4		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-EQBlank **Lab ID: C013007-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.388	J	1	0.220	2.00	6	ug/L	EPA 6020A	

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ANALYTICAL RESULTS

Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-01
Sampled: 10/25/10 15:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 20:41	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/01/10 20:41	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/01/10 20:41	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/01/10 20:41	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/01/10 20:41	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/01/10 20:41	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/01/10 20:41	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/01/10 20:41	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/01/10 20:41	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**2.5**		ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/01/10 20:41	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/01/10 20:41	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/01/10 20:41	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/01/10 20:41	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/01/10 20:41	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/01/10 20:41	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/01/10 20:41	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/01/10 20:41	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/01/10 20:41	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/01/10 20:41	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/01/10 20:41	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/01/10 20:41	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/01/10 20:41	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/01/10 20:41	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/01/10 20:41	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/01/10 20:41	JKG	
Chloromethane [74-87-3] ^	**0.51**	J	ug/L	1	0.34	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/01/10 20:41	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/01/10 20:41	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/01/10 20:41	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/01/10 20:41	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/01/10 20:41	JKG	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-01
Sampled: 10/25/10 15:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/01/10 20:41	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/01/10 20:41	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/01/10 20:41	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/01/10 20:41	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/01/10 20:41	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/01/10 20:41	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/01/10 20:41	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/01/10 20:41	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/01/10 20:41	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/01/10 20:41	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/01/10 20:41	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/01/10 20:41	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 20:41	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*51-122*	*0K01020*	*EPA 8260B*	*11/01/10 20:41*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*68-117*	*0K01020*	*EPA 8260B*	*11/01/10 20:41*	*JKG*	
Toluene-d8	*54*	*1*	*50.0*	*107 %*	*69-110*	*0K01020*	*EPA 8260B*	*11/01/10 20:41*	*JKG*	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-01
Sampled: 10/25/10 15:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 14:10	NLH	

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Description: 9209-MW5R
Matrix: Ground Water
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Lab Sample ID: C012688-01
Sampled: 10/25/10 15:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 09:48	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	10/29/10 14:50	JDH	
Barium [7440-39-3] ^	**77.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/29/10 14:50	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/29/10 14:50	JDH	
Cadmium [7440-43-9] ^	**1.66**		ug/L	1	0.360	1.00	1	EPA 6010C	10/29/10 14:50	JDH	
Chromium [7440-47-3] ^	**3.45**	J	ug/L	1	1.00	10.0	10	EPA 6010C	10/29/10 14:50	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/29/10 14:50	JDH	
Copper [7440-50-8] ^	**6.88**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/29/10 14:50	JDH	
Lead [7439-92-1] ^	**14.4**		ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 14:50	JDH	
Nickel [7440-02-0] ^	**2.43**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/29/10 14:50	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 09:48	VLO	
Silver [7440-22-4] ^	**11.8**		ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 14:50	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 09:48	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/29/10 14:50	JDH	
Zinc [7440-66-6] ^	**25.0**		ug/L	1	3.80	10.0	10	EPA 6010C	10/29/10 14:50	JDH	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-01
Sampled: 10/25/10 15:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	10/27/10 13:13	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**3100**	J	ug/L	1	2800	10000	NE	SM 5220D	10/28/10 14:36	AJB	
Chloride [16887-00-6] ^	**3900**	J	ug/L	1	18	5000	NE	EPA 300.0	11/02/10 01:49	PEV	
Nitrate as N [14797-55-8] ^	**75**	J	ug/L	1	25	100	10000	EPA 353.2	11/03/10 12:07	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**94**	J	ug/L	1	25	100	NE	EPA 353.2	11/02/10 08:22	PEV	
Nitrite as N [14797-65-0] ^	**19**	JB	ug/L	1	5.6	100	1000	EPA 353.2	10/27/10 07:34	PEV	J-01
Sulfate as SO4 [14808-79-8] ^	**8600**	J	ug/L	1	120	5000	250000	EPA 300.0	11/02/10 01:49	PEV	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	11/01/10 11:10	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**300000**		ug/L	2	16000	30000		EPA 310.2	10/28/10 10:04	PEV	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-01
Sampled: 10/25/10 15:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	**97**		ug/L	1	37	50		SM18 3500-Fe D	10/28/10 14:27	NP	Q
Total Organic Carbon [ECL-0165] ^	**930**	J	ug/L	1	320	1000	NE	SM18 5310B	11/04/10 19:18	RSA	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-01
Sampled: 10/25/10 15:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**206000**		ug/L	1	2000	2500	NE	RSK-175	10/27/10 12:48	LAC	
Ethane [74-84-0]	1.50	U	ug/L	1	1.50	2.00	NE	RSK-175	10/27/10 12:48	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	10/27/10 12:48	LAC	
Methane [74-82-8]	**9.72**		ug/L	1	0.490	1.00	NE	RSK-175	10/27/10 12:48	LAC	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-01
Sampled: 10/25/10 15:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	10/29/10 04:22	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	10/29/10 04:22	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	10/29/10 04:22	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	10/29/10 04:22	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	10/29/10 04:22	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	10/29/10 04:22	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	10/29/10 04:22	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	10/29/10 04:22	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	10/29/10 04:22	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	10/29/10 04:22	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*51000*	*1*	*50000*	*102 %*	*80-124*	*0J27012*	*VGC-13*	*10/29/10 04:22*	*MEF*	

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

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Description: 9209-MW6 | **Lab Sample ID:** C012688-02 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 08:20 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 22:08	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/01/10 22:08	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
1,1-Dichloroethane [75-34-3] ^	**1.0**	J	ug/L	1	0.33	1.0	5	EPA 8260B	11/01/10 22:08	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/01/10 22:08	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/01/10 22:08	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/01/10 22:08	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/01/10 22:08	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/01/10 22:08	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/01/10 22:08	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**3.0**		ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/01/10 22:08	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/01/10 22:08	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/01/10 22:08	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/01/10 22:08	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/01/10 22:08	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/01/10 22:08	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/01/10 22:08	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/01/10 22:08	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/01/10 22:08	JKG	
Benzene [71-43-2] ^	**4.5**		ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/01/10 22:08	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/01/10 22:08	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/01/10 22:08	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/01/10 22:08	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
Chlorobenzene [108-90-7] ^	**2.3**	J	ug/L	1	0.27	1.0	3	EPA 8260B	11/01/10 22:08	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/01/10 22:08	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/01/10 22:08	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/01/10 22:08	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.3**	J	ug/L	1	0.36	1.0	5	EPA 8260B	11/01/10 22:08	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/01/10 22:08	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/01/10 22:08	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/01/10 22:08	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/01/10 22:08	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/01/10 22:08	JKG	

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Description: 9209-MW6 | **Lab Sample ID:** C012688-02 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 08:20 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/01/10 22:08	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/01/10 22:08	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/01/10 22:08	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/01/10 22:08	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/01/10 22:08	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/01/10 22:08	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/01/10 22:08	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/01/10 22:08	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/01/10 22:08	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/01/10 22:08	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 22:08	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*51-122*	*0K01023*	*EPA 8260B*	*11/01/10 22:08*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*0K01023*	*EPA 8260B*	*11/01/10 22:08*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*69-110*	*0K01023*	*EPA 8260B*	*11/01/10 22:08*	*JKG*	

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Description: 9209-MW6
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-02
Sampled: 10/26/10 08:20
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 14:12	NLH	

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Description: 9209-MW6 | **Lab Sample ID:** C012688-02 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 08:20 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.338**	JB	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 09:51	VLO	J-01
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	10/29/10 14:53	JDH	
Barium [7440-39-3] ^	**416**		ug/L	1	1.00	10.0	100	EPA 6010C	10/29/10 14:53	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/29/10 14:53	JDH	
Cadmium [7440-43-9] ^	**1.02**		ug/L	1	0.360	1.00	1	EPA 6010C	10/29/10 14:53	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	10/29/10 14:53	JDH	
Cobalt [7440-48-4] ^	**37.4**		ug/L	1	1.10	10.0	10	EPA 6010C	10/29/10 14:53	JDH	
Copper [7440-50-8] ^	**8.73**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/29/10 14:53	JDH	
Lead [7439-92-1] ^	**9.55**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 14:53	JDH	
Nickel [7440-02-0] ^	**10.5**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/29/10 14:53	JDH	
Selenium [7782-49-2] ^	**3.32**	J	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 09:51	VLO	
Silver [7440-22-4] ^	**9.23**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 14:53	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 09:51	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/29/10 14:53	JDH	
Zinc [7440-66-6] ^	**17.5**		ug/L	1	3.80	10.0	10	EPA 6010C	10/29/10 14:53	JDH	

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Description: 9209-MW6
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-02
Sampled: 10/26/10 08:20
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	10/27/10 13:13	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**120000**		ug/L	1	2800	10000	NE	SM 5220D	10/28/10 14:36	AJB	
Chloride [16887-00-6] ^	**210000**	D	ug/L	4	72	20000	NE	EPA 300.0	11/02/10 08:58	PEV	
Nitrate as N [14797-55-8] ^	**230**	J	ug/L	1	25	100	10000	EPA 353.2	11/03/10 12:07	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**240**		ug/L	1	25	100	NE	EPA 353.2	11/02/10 08:24	PEV	
Nitrite as N [14797-65-0] ^	**9.1**	JB	ug/L	1	5.6	100	1000	EPA 353.2	10/27/10 07:35	PEV	J-01
Sulfate as SO4 [14808-79-8] ^	**13000**	J	ug/L	1	120	5000	250000	EPA 300.0	11/02/10 02:08	PEV	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	11/01/10 11:10	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**930000**		ug/L	5	40000	75000		EPA 310.2	10/28/10 10:05	PEV	

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Description: 9209-MW6
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-02
Sampled: 10/26/10 08:20
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	**1200**		ug/L	1	37	50		SM18 3500-Fe D	10/28/10 14:27	NP	Q
Total Organic Carbon [ECL-0165] ^	**26000**		ug/L	1	320	1000	NE	SM18 5310B	11/04/10 19:18	RSA	

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Description: 9209-MW6
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-02
Sampled: 10/26/10 08:20
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**692000**	D	ug/L	10	20000	25000	NE	RSK-175	10/27/10 13:45	LAC	
Ethane [74-84-0]	1.50	U	ug/L	1	1.50	2.00	NE	RSK-175	10/27/10 12:52	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	10/27/10 12:52	LAC	
Methane [74-82-8]	**800**		ug/L	1	0.490	1.00	NE	RSK-175	10/27/10 12:52	LAC	

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Description: 9209-MW6 | **Lab Sample ID:** C012688-02 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 08:20 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	**34000**		ug/L	1	83	500	NE	VGC-13	10/29/10 05:25	MEF	
Butyric Acid [107-92-6]	**4300**		ug/L	1	160	500	NE	VGC-13	10/29/10 05:25	MEF	
Hexanoic Acid [142-62-1]	**1500**		ug/L	1	230	1000		VGC-13	10/29/10 05:25	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	10/29/10 05:25	MEF	
iso-Hexanoic Acid [646-07-1]	**6400**		ug/L	1	210	1000		VGC-13	10/29/10 05:25	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	10/29/10 05:25	MEF	
Lactic Acid [50-21-5]	**60000**		ug/L	1	440	500	NE	VGC-13	10/29/10 05:25	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	10/29/10 05:25	MEF	
Propionic Acid [79-09-4]	**54000**		ug/L	1	180	500	NE	VGC-13	10/29/10 05:25	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	10/29/10 05:25	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*50000*	*1*	*50000*	*100 %*	*80-124*	*0J27012*	*VGC-13*	*10/29/10 05:25*	*MEF*	

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

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Description: 9209-MW8 | **Lab Sample ID:** C012688-03 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/25/10 16:20 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 21:09	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/01/10 21:09	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
1,1-Dichloroethane [75-34-3] ^	**1.0**	J	ug/L	1	0.33	1.0	5	EPA 8260B	11/01/10 21:09	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/01/10 21:09	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/01/10 21:09	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/01/10 21:09	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/01/10 21:09	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/01/10 21:09	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/01/10 21:09	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/01/10 21:09	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/01/10 21:09	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/01/10 21:09	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/01/10 21:09	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/01/10 21:09	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/01/10 21:09	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/01/10 21:09	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/01/10 21:09	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/01/10 21:09	JKG	
Benzene [71-43-2] ^	**0.41**	J	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/01/10 21:09	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/01/10 21:09	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/01/10 21:09	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/01/10 21:09	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/01/10 21:09	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/01/10 21:09	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/01/10 21:09	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/01/10 21:09	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**56**		ug/L	1	0.36	1.0	5	EPA 8260B	11/01/10 21:09	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/01/10 21:09	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/01/10 21:09	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/01/10 21:09	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/01/10 21:09	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/01/10 21:09	JKG	

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Description: 9209-MW8 | **Lab Sample ID:** C012688-03 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/25/10 16:20 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/01/10 21:09	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/01/10 21:09	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/01/10 21:09	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/01/10 21:09	JKG	
Methylene chloride [75-09-2] ^	**0.69**	J	ug/L	1	0.53	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/01/10 21:09	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/01/10 21:09	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/01/10 21:09	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/01/10 21:09	JKG	
Trichloroethene [79-01-6] ^	**0.58**	J	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/01/10 21:09	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/01/10 21:09	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 21:09	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*0K01020*	*EPA 8260B*	*11/01/10 21:09*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*68-117*	*0K01020*	*EPA 8260B*	*11/01/10 21:09*	*JKG*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*69-110*	*0K01020*	*EPA 8260B*	*11/01/10 21:09*	*JKG*	

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Description: 9209-MW8
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-03
Sampled: 10/25/10 16:20
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 14:15	NLH	

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Description: 9209-MW8 | **Lab Sample ID:** C012688-03 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/25/10 16:20 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 09:55	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	10/29/10 14:56	JDH	
Barium [7440-39-3] ^	**37.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/29/10 14:56	JDH	
Beryllium [7440-41-7] ^	**0.106**	J	ug/L	1	0.100	1.00	1	EPA 6010C	10/29/10 14:56	JDH	
Cadmium [7440-43-9] ^	**0.804**	J	ug/L	1	0.360	1.00	1	EPA 6010C	10/29/10 14:56	JDH	
Chromium [7440-47-3] ^	**1.69**	J	ug/L	1	1.00	10.0	10	EPA 6010C	10/29/10 14:56	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/29/10 14:56	JDH	
Copper [7440-50-8] ^	**7.78**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/29/10 14:56	JDH	
Lead [7439-92-1] ^	**5.34**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 14:56	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/29/10 14:56	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 09:55	VLO	
Silver [7440-22-4] ^	**4.12**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 14:56	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 09:55	VLO	
Vanadium [7440-62-2] ^	**1.61**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/29/10 14:56	JDH	
Zinc [7440-66-6] ^	**22.9**		ug/L	1	3.80	10.0	10	EPA 6010C	10/29/10 14:56	JDH	

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Description: 9209-MW8 | **Lab Sample ID:** C012688-03 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/25/10 16:20 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	10/27/10 13:13	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**14000**		ug/L	1	2800	10000	NE	SM 5220D	11/04/10 16:40	JOC	
Chloride [16887-00-6] ^	**16000**		ug/L	1	18	5000	NE	EPA 300.0	11/02/10 03:04	PEV	
Nitrate as N [14797-55-8] ^	**300**	J	ug/L	1	25	100	10000	EPA 353.2	11/03/10 12:07	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**310**		ug/L	1	25	100	NE	EPA 353.2	11/02/10 08:26	PEV	
Nitrite as N [14797-65-0] ^	**8.3**	JB	ug/L	1	5.6	100	1000	EPA 353.2	10/27/10 07:35	PEV	J-01
Sulfate as SO4 [14808-79-8] ^	**3300**	J	ug/L	1	120	5000	250000	EPA 300.0	11/02/10 03:04	PEV	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	11/01/10 11:10	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**72000**		ug/L	1	8000	15000		EPA 310.2	10/28/10 10:06	PEV	

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Description: 9209-MW8
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-03
Sampled: 10/25/10 16:20
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	**68**		ug/L	1	37	50		SM18 3500-Fe D	10/28/10 14:27	NP	Q
Total Organic Carbon [ECL-0165] ^	**570**	J	ug/L	1	320	1000	NE	SM18 5310B	11/04/10 19:18	RSA	

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Description: 9209-MW8
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-03
Sampled: 10/25/10 16:20
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**139000**		ug/L	1	2000	2500	NE	RSK-175	10/27/10 12:55	LAC	
Ethane [74-84-0]	1.50	U	ug/L	1	1.50	2.00	NE	RSK-175	10/27/10 12:55	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	10/27/10 12:55	LAC	
Methane [74-82-8]	**572**		ug/L	1	0.490	1.00	NE	RSK-175	10/27/10 12:55	LAC	

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Description: 9209-MW8 | **Lab Sample ID:** C012688-03 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/25/10 16:20 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	10/29/10 06:27	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	10/29/10 06:27	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	10/29/10 06:27	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	10/29/10 06:27	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	10/29/10 06:27	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	10/29/10 06:27	MEF	
Lactic Acid [50-21-5]	**1700**		ug/L	1	440	500	NE	VGC-13	10/29/10 06:27	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	10/29/10 06:27	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	10/29/10 06:27	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	10/29/10 06:27	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*51000*	*1*	*50000*	*102 %*	*80-124*	*0J27012*	*VGC-13*	*10/29/10 06:27*	*MEF*	

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

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Description: 9209-MW9 | **Lab Sample ID:** C012688-04 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 09:45 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 22:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/01/10 22:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
1,1-Dichloroethane [75-34-3] ^	**17**		ug/L	1	0.33	1.0	5	EPA 8260B	11/01/10 22:38	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/01/10 22:38	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/01/10 22:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/01/10 22:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/01/10 22:38	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/01/10 22:38	JKG	
1,2-Dichloroethane [107-06-2] ^	**1.2**		ug/L	1	0.65	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
1,2-Dichloropropane [78-87-5] ^	**1.0**		ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/01/10 22:38	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**8.4**		ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/01/10 22:38	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/01/10 22:38	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/01/10 22:38	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/01/10 22:38	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/01/10 22:38	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/01/10 22:38	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/01/10 22:38	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/01/10 22:38	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/01/10 22:38	JKG	
Benzene [71-43-2] ^	**1.6**		ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/01/10 22:38	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/01/10 22:38	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/01/10 22:38	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/01/10 22:38	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/01/10 22:38	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/01/10 22:38	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/01/10 22:38	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/01/10 22:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**16**		ug/L	1	0.36	1.0	5	EPA 8260B	11/01/10 22:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/01/10 22:38	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/01/10 22:38	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/01/10 22:38	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/01/10 22:38	JKG	
Ethylbenzene [100-41-4] ^	**0.74**	J	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/01/10 22:38	JKG	

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Description: 9209-MW9 | **Lab Sample ID:** C012688-04 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 09:45 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/01/10 22:38	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/01/10 22:38	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/01/10 22:38	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/01/10 22:38	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/01/10 22:38	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/01/10 22:38	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/01/10 22:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/01/10 22:38	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/01/10 22:38	JKG	
Vinyl chloride [75-01-4] ^	**25**		ug/L	1	0.30	1.0	1	EPA 8260B	11/01/10 22:38	JKG	
Xylenes (Total) [1330-20-7] ^	**0.57**	J	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 22:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*51-122*	*0K01023*	*EPA 8260B*	*11/01/10 22:38*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*0K01023*	*EPA 8260B*	*11/01/10 22:38*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*103 %*	*69-110*	*0K01023*	*EPA 8260B*	*11/01/10 22:38*	*JKG*	

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Description:	9209-MW9	**Lab Sample ID:**	C012688-04	**Received:**	10/26/10 13:50
Matrix:	Ground Water	**Sampled:**	10/26/10 09:45	**Work Order:**	C012688
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 14:18	NLH	

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Description: 9209-MW9 | **Lab Sample ID:** C012688-04 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 09:45 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 10:06	VLO	
Arsenic [7440-38-2] ^	**3.47**	J	ug/L	1	2.80	10.0	10	EPA 6010C	10/29/10 15:00	JDH	
Barium [7440-39-3] ^	**157**		ug/L	1	1.00	10.0	100	EPA 6010C	10/29/10 15:00	JDH	
Beryllium [7440-41-7] ^	**0.207**	J	ug/L	1	0.100	1.00	1	EPA 6010C	10/29/10 15:00	JDH	
Cadmium [7440-43-9] ^	**0.695**	J	ug/L	1	0.360	1.00	1	EPA 6010C	10/29/10 15:00	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	10/29/10 15:00	JDH	
Cobalt [7440-48-4] ^	**3.92**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/29/10 15:00	JDH	
Copper [7440-50-8] ^	**8.84**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/29/10 15:00	JDH	
Lead [7439-92-1] ^	**7.02**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 15:00	JDH	
Nickel [7440-02-0] ^	**2.80**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/29/10 15:00	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 10:06	VLO	
Silver [7440-22-4] ^	**5.70**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 15:00	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 10:06	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/29/10 15:00	JDH	
Zinc [7440-66-6] ^	**20.9**		ug/L	1	3.80	10.0	10	EPA 6010C	10/29/10 15:00	JDH	

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Description: 9209-MW9
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-04
Sampled: 10/26/10 09:45
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	10/27/10 13:13	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**53000**		ug/L	1	2800	10000	NE	SM 5220D	11/04/10 16:40	JOC	
Chloride [16887-00-6] ^	**21000**		ug/L	1	18	5000	NE	EPA 300.0	11/02/10 03:22	PEV	
Nitrate as N [14797-55-8] ^	**53**	J	ug/L	1	25	100	10000	EPA 353.2	11/03/10 12:07	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**63**	J	ug/L	1	25	100	NE	EPA 353.2	11/02/10 08:29	PEV	
Nitrite as N [14797-65-0] ^	**9.8**	JB	ug/L	1	5.6	100	1000	EPA 353.2	10/27/10 07:36	PEV	J-01
Sulfate as SO4 [14808-79-8] ^	**2600**	J	ug/L	1	120	5000	250000	EPA 300.0	11/02/10 03:22	PEV	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	11/01/10 11:10	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**270000**		ug/L	2	16000	30000		EPA 310.2	10/28/10 10:07	PEV	

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Description: 9209-MW9
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-04
Sampled: 10/26/10 09:45
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	**8500**		ug/L	1	180	250		SM18 3500-Fe D	10/28/10 14:27	NP	Q
Total Organic Carbon [ECL-0165] ^	**3000**		ug/L	1	320	1000	NE	SM18 5310B	11/04/10 19:18	RSA	

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Description: 9209-MW9
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-04
Sampled: 10/26/10 09:45
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**348000**	D	ug/L	10	20000	25000	NE	RSK-175	10/27/10 14:23	LAC	
Ethane [74-84-0]	1.50	U	ug/L	1	1.50	2.00	NE	RSK-175	10/27/10 12:59	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	10/27/10 12:59	LAC	
Methane [74-82-8]	**1330**		ug/L	1	0.490	1.00	NE	RSK-175	10/27/10 12:59	LAC	

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Description: 9209-MW9
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-04
Sampled: 10/26/10 09:45
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	**2300**		ug/L	1	83	500	NE	VGC-13	10/29/10 07:30	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	10/29/10 07:30	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	10/29/10 07:30	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	10/29/10 07:30	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	10/29/10 07:30	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	10/29/10 07:30	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	10/29/10 07:30	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	10/29/10 07:30	MEF	
Propionic Acid [79-09-4]	**2500**		ug/L	1	180	500	NE	VGC-13	10/29/10 07:30	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	10/29/10 07:30	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*56000*	*1*	*50000*	*113 %*	*80-124*	*0J27012*	*VGC-13*	*10/29/10 07:30*	*MEF*	

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

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Description: 9209-MW10 | **Lab Sample ID:** C012688-05 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/25/10 14:10 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 21:37	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/01/10 21:37	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
1,1-Dichloroethane [75-34-3] ^	**4.4**	J	ug/L	1	0.33	1.0	5	EPA 8260B	11/01/10 21:37	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/01/10 21:37	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/01/10 21:37	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/01/10 21:37	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/01/10 21:37	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/01/10 21:37	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/01/10 21:37	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**0.67**	J	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/01/10 21:37	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/01/10 21:37	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/01/10 21:37	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/01/10 21:37	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/01/10 21:37	JKG	
Acetone [67-64-1] ^	**4.2**	J	ug/L	1	1.5	5.0	100	EPA 8260B	11/01/10 21:37	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/01/10 21:37	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/01/10 21:37	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/01/10 21:37	JKG	
Benzene [71-43-2] ^	**4.0**		ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/01/10 21:37	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/01/10 21:37	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/01/10 21:37	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/01/10 21:37	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/01/10 21:37	JKG	
Chloroethane [75-00-3] ^	**1.7**	J	ug/L	1	0.30	1.0	10	EPA 8260B	11/01/10 21:37	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/01/10 21:37	JKG	
Chloromethane [74-87-3] ^	**0.45**	J	ug/L	1	0.34	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/01/10 21:37	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**48**		ug/L	1	0.36	1.0	5	EPA 8260B	11/01/10 21:37	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/01/10 21:37	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/01/10 21:37	JKG	
Dichlorodifluoromethane [75-71-8] ^	**0.52**	J	ug/L	1	0.38	1.0	5	EPA 8260B	11/01/10 21:37	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/01/10 21:37	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/01/10 21:37	JKG	

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Description: 9209-MW10 | **Lab Sample ID:** C012688-05 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/25/10 14:10 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/01/10 21:37	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/01/10 21:37	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/01/10 21:37	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/01/10 21:37	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/01/10 21:37	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/01/10 21:37	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
Tetrachloroethene [127-18-4] ^	**2.8**		ug/L	1	0.36	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/01/10 21:37	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/01/10 21:37	JKG	
Trichloroethene [79-01-6] ^	**1.9**		ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/01/10 21:37	JKG	
Vinyl chloride [75-01-4] ^	**1.7**		ug/L	1	0.30	1.0	1	EPA 8260B	11/01/10 21:37	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 21:37	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*51-122*	*0K01020*	*EPA 8260B*	*11/01/10 21:37*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*0K01020*	*EPA 8260B*	*11/01/10 21:37*	*JKG*	
Toluene-d8	*52*	*1*	*50.0*	*105 %*	*69-110*	*0K01020*	*EPA 8260B*	*11/01/10 21:37*	*JKG*	

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Description:	9209-MW10	**Lab Sample ID:**	C012688-05	**Received:**	10/26/10 13:50
Matrix:	Ground Water	**Sampled:**	10/25/10 14:10	**Work Order:**	C012688
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.241**		ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 14:21	NLH	

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Description: 9209-MW10 | **Lab Sample ID:** C012688-05 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/25/10 14:10 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.33**	JB	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 09:30	VLO	J-01
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	10/29/10 15:03	JDH	
Barium [7440-39-3] ^	**18.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/29/10 15:03	JDH	
Beryllium [7440-41-7] ^	**0.300**	J	ug/L	1	0.100	1.00	1	EPA 6010C	10/29/10 15:03	JDH	
Cadmium [7440-43-9] ^	**0.627**	J	ug/L	1	0.360	1.00	1	EPA 6010C	10/29/10 15:03	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	10/29/10 15:03	JDH	
Cobalt [7440-48-4] ^	**1.53**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/29/10 15:03	JDH	
Copper [7440-50-8] ^	**8.36**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/29/10 15:03	JDH	
Lead [7439-92-1] ^	**5.19**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 15:03	JDH	
Nickel [7440-02-0] ^	**1.89**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/29/10 15:03	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 09:30	VLO	
Silver [7440-22-4] ^	**3.17**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 15:03	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 09:30	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/29/10 15:03	JDH	
Zinc [7440-66-6] ^	**22.5**		ug/L	1	3.80	10.0	10	EPA 6010C	10/29/10 15:03	JDH	

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Description: 9209-MW10
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-05
Sampled: 10/25/10 14:10
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**2400**		ug/L	1	2000	2000	NE	SM 5210B	10/27/10 13:13	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**31000**		ug/L	1	2800	10000	NE	SM 5220D	11/04/10 16:40	JOC	
Chloride [16887-00-6] ^	**4200**	J	ug/L	1	18	5000	NE	EPA 300.0	11/02/10 03:41	PEV	
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	11/03/10 12:07	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	25	U	ug/L	1	25	100	NE	EPA 353.2	11/02/10 08:31	PEV	
Nitrite as N [14797-65-0] ^	**10**	JB	ug/L	1	5.6	100	1000	EPA 353.2	10/27/10 07:39	PEV	J-01
Sulfate as SO4 [14808-79-8] ^	**2200**	J	ug/L	1	120	5000	250000	EPA 300.0	11/02/10 03:41	PEV	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	11/01/10 11:10	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**130000**		ug/L	1	8000	15000		EPA 310.2	10/28/10 10:08	PEV	

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Description: 9209-MW10
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-05
Sampled: 10/25/10 14:10
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	**380**		ug/L	1	37	50		SM18 3500-Fe D	10/28/10 14:27	NP	Q
Total Organic Carbon [ECL-0165] ^	**1500**		ug/L	1	320	1000	NE	SM18 5310B	11/04/10 19:18	RSA	

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Description: 9209-MW10
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-05
Sampled: 10/25/10 14:10
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**583000**	D	ug/L	10	20000	25000	NE	RSK-175	10/27/10 13:52	LAC	
Ethane [74-84-0]	1.50	U	ug/L	1	1.50	2.00	NE	RSK-175	10/27/10 13:03	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	10/27/10 13:03	LAC	
Methane [74-82-8]	**2620**		ug/L	1	0.490	1.00	NE	RSK-175	10/27/10 13:03	LAC	

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Description: 9209-MW10
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-05
Sampled: 10/25/10 14:10
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	10/29/10 08:33	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	10/29/10 08:33	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	10/29/10 08:33	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	10/29/10 08:33	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	10/29/10 08:33	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	10/29/10 08:33	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	10/29/10 08:33	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	10/29/10 08:33	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	10/29/10 08:33	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	10/29/10 08:33	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*51000*	*1*	*50000*	*101 %*	*80-124*	*0J27012*	*VGC-13*	*10/29/10 08:33*	*MEF*	

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

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Description: 9209-MW11 | **Lab Sample ID:** C012688-06 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 10:15 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 03:30	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 03:30	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 03:30	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 03:30	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/02/10 03:30	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/02/10 03:30	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 03:30	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 03:30	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/02/10 03:30	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/02/10 03:30	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 03:30	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 03:30	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/02/10 03:30	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 03:30	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 03:30	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/02/10 03:30	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/02/10 03:30	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 03:30	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 03:30	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 03:30	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 03:30	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 03:30	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 03:30	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 03:30	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 03:30	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/02/10 03:30	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 03:30	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 03:30	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 03:30	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/02/10 03:30	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/02/10 03:30	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/02/10 03:30	JKG	

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Description: 9209-MW11 | **Lab Sample ID:** C012688-06 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 10:15 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 03:30	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/02/10 03:30	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/02/10 03:30	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/02/10 03:30	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/02/10 03:30	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/02/10 03:30	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 03:30	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 03:30	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 03:30	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 03:30	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 03:30	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*107 %*	*51-122*	*0K01026*	*EPA 8260B*	*11/02/10 03:30*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*0K01026*	*EPA 8260B*	*11/02/10 03:30*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*103 %*	*69-110*	*0K01026*	*EPA 8260B*	*11/02/10 03:30*	*JKG*	

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Description: 9209-MW11
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-06
Sampled: 10/26/10 10:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 14:24	NLH	

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Description: 9209-MW11 | **Lab Sample ID:** C012688-06 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 10:15 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 10:10	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	10/29/10 15:06	JDH	
Barium [7440-39-3] ^	**143**		ug/L	1	1.00	10.0	100	EPA 6010C	10/29/10 15:06	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/29/10 15:06	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/29/10 15:06	JDH	
Chromium [7440-47-3] ^	**3.50**	J	ug/L	1	1.00	10.0	10	EPA 6010C	10/29/10 15:06	JDH	
Cobalt [7440-48-4] ^	**5.47**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/29/10 15:06	JDH	
Copper [7440-50-8] ^	**25.8**		ug/L	1	1.60	10.0	10	EPA 6010C	10/29/10 15:06	JDH	
Lead [7439-92-1] ^	**5.69**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 15:06	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/29/10 15:06	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 10:10	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 15:06	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 10:10	VLO	
Vanadium [7440-62-2] ^	**23.0**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/29/10 15:06	JDH	
Zinc [7440-66-6] ^	**42.7**		ug/L	1	3.80	10.0	10	EPA 6010C	10/29/10 15:06	JDH	

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Description: 9209-MW11
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-06
Sampled: 10/26/10 10:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	10/27/10 13:13	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**18000**		ug/L	1	2800	10000	NE	SM 5220D	11/04/10 16:40	JOC	
Chloride [16887-00-6] ^	**4100**	J	ug/L	1	18	5000	NE	EPA 300.0	11/02/10 04:00	PEV	
Nitrate as N [14797-55-8] ^	**32**	J	ug/L	1	25	100	10000	EPA 353.2	11/03/10 12:07	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**39**	J	ug/L	1	25	100	NE	EPA 353.2	11/02/10 08:33	PEV	
Nitrite as N [14797-65-0] ^	**7.2**	JB	ug/L	1	5.6	100	1000	EPA 353.2	10/27/10 07:40	PEV	J-01
Sulfate as SO4 [14808-79-8] ^	**2100**	J	ug/L	1	120	5000	250000	EPA 300.0	11/02/10 04:00	PEV	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	11/01/10 11:10	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**37000**		ug/L	1	8000	15000		EPA 310.2	10/28/10 10:09	PEV	

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Description: 9209-MW11
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-06
Sampled: 10/26/10 10:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	37	U	ug/L	1	37	50		SM18 3500-Fe D	10/28/10 14:27	NP	Q
Total Organic Carbon [ECL-0165] ^	**1300**		ug/L	1	320	1000	NE	SM18 5310B	11/04/10 19:18	RSA	

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Description: 9209-MW11
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-06
Sampled: 10/26/10 10:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**99900**		ug/L	1	2000	2500	NE	RSK-175	10/27/10 13:07	LAC	
Ethane [74-84-0]	1.50	U	ug/L	1	1.50	2.00	NE	RSK-175	10/27/10 13:07	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	10/27/10 13:07	LAC	
Methane [74-82-8]	**10.3**		ug/L	1	0.490	1.00	NE	RSK-175	10/27/10 13:07	LAC	

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Description: 9209-MW11
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-06
Sampled: 10/26/10 10:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	10/29/10 09:35	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	10/29/10 09:35	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	10/29/10 09:35	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	10/29/10 09:35	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	10/29/10 09:35	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	10/29/10 09:35	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	10/29/10 09:35	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	10/29/10 09:35	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	10/29/10 09:35	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	10/29/10 09:35	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*40000*	*1*	*50000*	*80 %*	*80-124*	*0J27012*	*VGC-13*	*10/29/10 09:35*	*MEF*	

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

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Description: 9209-MW22 | **Lab Sample ID:** C012688-07 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 07:20 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 04:00	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 04:00	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 04:00	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 04:00	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/02/10 04:00	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/02/10 04:00	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 04:00	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 04:00	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/02/10 04:00	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/02/10 04:00	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 04:00	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 04:00	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/02/10 04:00	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 04:00	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 04:00	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/02/10 04:00	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/02/10 04:00	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 04:00	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 04:00	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 04:00	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 04:00	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 04:00	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 04:00	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 04:00	JKG	
Chloroform [67-66-3] ^	**0.94**	J	ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 04:00	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/02/10 04:00	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 04:00	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 04:00	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 04:00	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/02/10 04:00	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/02/10 04:00	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/02/10 04:00	JKG	

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Description: 9209-MW22 | **Lab Sample ID:** C012688-07 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 07:20 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 04:00	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/02/10 04:00	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/02/10 04:00	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/02/10 04:00	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/02/10 04:00	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/02/10 04:00	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
Tetrachloroethene [127-18-4] ^	**0.65**	J	ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 04:00	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 04:00	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 04:00	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 04:00	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 04:00	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*51-122*	*0K01026*	*EPA 8260B*	*11/02/10 04:00*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*0K01026*	*EPA 8260B*	*11/02/10 04:00*	*JKG*	
Toluene-d8	*52*	*1*	*50.0*	*105 %*	*69-110*	*0K01026*	*EPA 8260B*	*11/02/10 04:00*	*JKG*	

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Description: 9209-MW22
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-07
Sampled: 10/26/10 07:20
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 14:33	NLH	

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Description: 9209-MW22 | **Lab Sample ID:** C012688-07 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 07:20 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 10:13	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	10/29/10 15:18	JDH	
Barium [7440-39-3] ^	**29.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/29/10 15:18	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/29/10 15:18	JDH	
Cadmium [7440-43-9] ^	**2.06**		ug/L	1	0.360	1.00	1	EPA 6010C	10/29/10 15:18	JDH	
Chromium [7440-47-3] ^	**2.66**	J	ug/L	1	1.00	10.0	10	EPA 6010C	10/29/10 15:18	JDH	
Cobalt [7440-48-4] ^	**13.0**		ug/L	1	1.10	10.0	10	EPA 6010C	10/29/10 15:18	JDH	
Copper [7440-50-8] ^	**7.94**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/29/10 15:18	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 15:18	JDH	
Nickel [7440-02-0] ^	**5.73**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/29/10 15:18	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 10:13	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 15:18	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 10:13	VLO	
Vanadium [7440-62-2] ^	**2.94**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/29/10 15:18	JDH	
Zinc [7440-66-6] ^	**21.6**		ug/L	1	3.80	10.0	10	EPA 6010C	10/29/10 15:18	JDH	

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

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Description: 9209-MW30 | **Lab Sample ID:** C012688-08 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 11:35 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 04:29	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 04:29	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 04:29	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 04:29	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/02/10 04:29	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/02/10 04:29	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 04:29	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 04:29	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/02/10 04:29	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/02/10 04:29	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 04:29	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 04:29	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/02/10 04:29	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 04:29	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 04:29	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/02/10 04:29	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/02/10 04:29	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 04:29	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 04:29	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 04:29	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 04:29	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 04:29	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 04:29	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 04:29	JKG	
Chloroform [67-66-3] ^	**0.52**	J	ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 04:29	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/02/10 04:29	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 04:29	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 04:29	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 04:29	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/02/10 04:29	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/02/10 04:29	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/02/10 04:29	JKG	

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Description: 9209-MW30 | **Lab Sample ID:** C012688-08 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 11:35 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 04:29	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/02/10 04:29	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/02/10 04:29	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/02/10 04:29	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/02/10 04:29	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/02/10 04:29	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 04:29	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 04:29	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 04:29	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 04:29	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 04:29	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*0K01026*	*EPA 8260B*	*11/02/10 04:29*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*103 %*	*68-117*	*0K01026*	*EPA 8260B*	*11/02/10 04:29*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*101 %*	*69-110*	*0K01026*	*EPA 8260B*	*11/02/10 04:29*	*JKG*	

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Description: 9209-MW30
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-08
Sampled: 10/26/10 11:35
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 14:36	NLH	

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Description: 9209-MW30 | **Lab Sample ID:** C012688-08 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 11:35 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 10:17	VLO	
Arsenic [7440-38-2] ^	**4.15**	J	ug/L	1	2.80	10.0	10	EPA 6010C	10/29/10 15:21	JDH	
Barium [7440-39-3] ^	**155**		ug/L	1	1.00	10.0	100	EPA 6010C	10/29/10 15:21	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/29/10 15:21	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/29/10 15:21	JDH	
Chromium [7440-47-3] ^	**38.0**		ug/L	1	1.00	10.0	10	EPA 6010C	10/29/10 15:21	JDH	
Cobalt [7440-48-4] ^	**9.46**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/29/10 15:21	JDH	
Copper [7440-50-8] ^	**68.7**		ug/L	1	1.60	10.0	10	EPA 6010C	10/29/10 15:21	JDH	
Lead [7439-92-1] ^	**7.91**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 15:21	JDH	
Nickel [7440-02-0] ^	**18.3**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/29/10 15:21	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 10:17	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/29/10 15:21	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 10:17	VLO	
Vanadium [7440-62-2] ^	**40.6**		ug/L	1	1.40	10.0	25	EPA 6010C	10/29/10 15:21	JDH	
Zinc [7440-66-6] ^	**52.5**		ug/L	1	3.80	10.0	10	EPA 6010C	10/29/10 15:21	JDH	

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

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Description: 9209-MW31 | **Lab Sample ID:** C012688-09 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 10:35 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 04:58	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 04:58	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 04:58	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 04:58	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/02/10 04:58	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/02/10 04:58	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 04:58	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 04:58	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/02/10 04:58	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/02/10 04:58	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 04:58	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 04:58	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/02/10 04:58	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 04:58	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 04:58	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/02/10 04:58	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/02/10 04:58	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 04:58	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 04:58	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 04:58	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 04:58	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 04:58	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 04:58	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 04:58	JKG	
Chloroform [67-66-3] ^	**2.6**	J	ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 04:58	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/02/10 04:58	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 04:58	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 04:58	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 04:58	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/02/10 04:58	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/02/10 04:58	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/02/10 04:58	JKG	

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Description: 9209-MW31 | **Lab Sample ID:** C012688-09 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 10:35 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 04:58	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/02/10 04:58	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/02/10 04:58	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/02/10 04:58	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/02/10 04:58	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/02/10 04:58	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 04:58	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 04:58	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 04:58	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 04:58	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 04:58	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*51-122*	*0K01026*	*EPA 8260B*	*11/02/10 04:58*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*0K01026*	*EPA 8260B*	*11/02/10 04:58*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*101 %*	*69-110*	*0K01026*	*EPA 8260B*	*11/02/10 04:58*	*JKG*	

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Description: 9209-MW31
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-09
Sampled: 10/26/10 10:35
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 14:38	NLH	

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Description: 9209-MW31 | **Lab Sample ID:** C012688-09 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 10:35 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 10:21	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 13:44	JDH	
Barium [7440-39-3] ^	**21.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 13:44	JDH	
Beryllium [7440-41-7] ^	**0.102**	J	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 13:44	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 13:44	JDH	
Chromium [7440-47-3] ^	**7.80**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 13:44	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 13:44	JDH	
Copper [7440-50-8] ^	**4.32**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 13:44	JDH	
Lead [7439-92-1] ^	**1.99**	J	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 13:44	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 13:44	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 10:21	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 13:44	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 10:21	VLO	
Vanadium [7440-62-2] ^	**5.48**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 13:44	JDH	
Zinc [7440-66-6] ^	**31.0**		ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 13:44	JDH	

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

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Description: 9209-MW31d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-10
Sampled: 10/25/10 08:45
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 22:05	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/01/10 22:05	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/01/10 22:05	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/01/10 22:05	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/01/10 22:05	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/01/10 22:05	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/01/10 22:05	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/01/10 22:05	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/01/10 22:05	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/01/10 22:05	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/01/10 22:05	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/01/10 22:05	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/01/10 22:05	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/01/10 22:05	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/01/10 22:05	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/01/10 22:05	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/01/10 22:05	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/01/10 22:05	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/01/10 22:05	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/01/10 22:05	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/01/10 22:05	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/01/10 22:05	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/01/10 22:05	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/01/10 22:05	JKG	
Chloroform [67-66-3] ^	**22**		ug/L	1	0.20	1.0	5	EPA 8260B	11/01/10 22:05	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/01/10 22:05	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/01/10 22:05	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/01/10 22:05	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/01/10 22:05	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/01/10 22:05	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/01/10 22:05	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/01/10 22:05	JKG	

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Description: 9209-MW31d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-10
Sampled: 10/25/10 08:45
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/01/10 22:05	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/01/10 22:05	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/01/10 22:05	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/01/10 22:05	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/01/10 22:05	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/01/10 22:05	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/01/10 22:05	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/01/10 22:05	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/01/10 22:05	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/01/10 22:05	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 22:05	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*103 %*	*51-122*	*0K01020*	*EPA 8260B*	*11/01/10 22:05*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*0K01020*	*EPA 8260B*	*11/01/10 22:05*	*JKG*	
Toluene-d8	*53*	*1*	*50.0*	*105 %*	*69-110*	*0K01020*	*EPA 8260B*	*11/01/10 22:05*	*JKG*	

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Description: 9209-MW31d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-10
Sampled: 10/25/10 08:45
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 14:42	NLH	

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Description: 9209-MW31d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-10
Sampled: 10/25/10 08:45
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.582**	JB	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 10:24	VLO	J-01
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 12:55	JDH	
Barium [7440-39-3] ^	**14.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 12:55	JDH	
Beryllium [7440-41-7] ^	**0.111**	J	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 12:55	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 12:55	JDH	
Chromium [7440-47-3] ^	**6.56**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 12:55	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 12:55	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 12:55	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 12:55	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 12:55	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 10:24	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 12:55	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 10:24	VLO	
Vanadium [7440-62-2] ^	**7.10**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 12:55	JDH	
Zinc [7440-66-6] ^	**10.6**		ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 12:55	JDH	

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

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Description: 9209-MW32 | **Lab Sample ID:** C012688-11 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 11:10 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 05:27	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 05:27	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 05:27	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 05:27	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/02/10 05:27	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/02/10 05:27	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 05:27	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 05:27	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/02/10 05:27	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/02/10 05:27	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 05:27	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 05:27	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/02/10 05:27	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 05:27	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 05:27	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/02/10 05:27	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/02/10 05:27	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 05:27	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 05:27	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 05:27	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 05:27	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 05:27	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 05:27	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 05:27	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 05:27	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/02/10 05:27	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 05:27	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 05:27	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 05:27	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/02/10 05:27	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/02/10 05:27	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/02/10 05:27	JKG	

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Description: 9209-MW32 | **Lab Sample ID:** C012688-11 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 11:10 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 05:27	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/02/10 05:27	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/02/10 05:27	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/02/10 05:27	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/02/10 05:27	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/02/10 05:27	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 05:27	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 05:27	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 05:27	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 05:27	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 05:27	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*51-122*	*0K01026*	*EPA 8260B*	*11/02/10 05:27*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*0K01026*	*EPA 8260B*	*11/02/10 05:27*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*69-110*	*0K01026*	*EPA 8260B*	*11/02/10 05:27*	*JKG*	

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Description: 9209-MW32
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-11
Sampled: 10/26/10 11:10
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 14:45	NLH	

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Description: 9209-MW32 | **Lab Sample ID:** C012688-11 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 11:10 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 10:28	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 13:47	JDH	
Barium [7440-39-3] ^	**20.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 13:47	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 13:47	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 13:47	JDH	
Chromium [7440-47-3] ^	**3.54**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 13:47	JDH	
Cobalt [7440-48-4] ^	**3.28**	J	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 13:47	JDH	
Copper [7440-50-8] ^	**16.0**		ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 13:47	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 13:47	JDH	
Nickel [7440-02-0] ^	**2.48**	J	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 13:47	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 10:28	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 13:47	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 10:28	VLO	
Vanadium [7440-62-2] ^	**10.7**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 13:47	JDH	
Zinc [7440-66-6] ^	**21.1**		ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 13:47	JDH	

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

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Description: 9209-TB1a | **Lab Sample ID:** C012688-12 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 10:55 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 05:56	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 05:56	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.46**	J	ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 05:56	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 05:56	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/02/10 05:56	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/02/10 05:56	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 05:56	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 05:56	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/02/10 05:56	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/02/10 05:56	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 05:56	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 05:56	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/02/10 05:56	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 05:56	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 05:56	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/02/10 05:56	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/02/10 05:56	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 05:56	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 05:56	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 05:56	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 05:56	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 05:56	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 05:56	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 05:56	JKG	
Chloroform [67-66-3] ^	**4.3**	J	ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 05:56	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/02/10 05:56	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 05:56	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 05:56	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 05:56	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/02/10 05:56	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/02/10 05:56	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/02/10 05:56	JKG	

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Description: 9209-TB1a
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-12
Sampled: 10/26/10 10:55
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 05:56	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/02/10 05:56	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/02/10 05:56	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/02/10 05:56	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/02/10 05:56	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/02/10 05:56	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
Tetrachloroethene [127-18-4] ^	**0.50**	J	ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 05:56	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 05:56	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 05:56	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 05:56	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 05:56	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*106 %*	*51-122*	*0K01026*	*EPA 8260B*	*11/02/10 05:56*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*0K01026*	*EPA 8260B*	*11/02/10 05:56*	*JKG*	
Toluene-d8	*52*	*1*	*50.0*	*103 %*	*69-110*	*0K01026*	*EPA 8260B*	*11/02/10 05:56*	*JKG*	

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Description: 9209-TB1a
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-12
Sampled: 10/26/10 10:55
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 14:48	NLH	

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Description: 9209-TB1a
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-12
Sampled: 10/26/10 10:55
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 10:31	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 13:49	JDH	
Barium [7440-39-3] ^	**43.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 13:49	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 13:49	JDH	
Cadmium [7440-43-9] ^	**0.544**	J	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 13:49	JDH	
Chromium [7440-47-3] ^	**4.92**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 13:49	JDH	
Cobalt [7440-48-4] ^	**4.77**	J	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 13:49	JDH	
Copper [7440-50-8] ^	**27.2**		ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 13:49	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 13:49	JDH	
Nickel [7440-02-0] ^	**5.70**	J	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 13:49	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 10:31	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 13:49	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 10:31	VLO	
Vanadium [7440-62-2] ^	**12.5**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 13:49	JDH	
Zinc [7440-66-6] ^	**28.2**		ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 13:49	JDH	

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

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Description: 9209-TB1ad
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-13
Sampled: 10/25/10 09:50
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 06:25	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 06:25	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 06:25	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 06:25	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/02/10 06:25	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/02/10 06:25	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 06:25	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 06:25	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/02/10 06:25	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/02/10 06:25	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 06:25	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 06:25	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/02/10 06:25	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 06:25	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 06:25	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/02/10 06:25	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/02/10 06:25	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 06:25	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 06:25	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 06:25	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 06:25	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 06:25	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 06:25	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 06:25	JKG	
Chloroform [67-66-3] ^	**38**		ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 06:25	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/02/10 06:25	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 06:25	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 06:25	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 06:25	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/02/10 06:25	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/02/10 06:25	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/02/10 06:25	JKG	

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Description: 9209-TB1ad
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-13
Sampled: 10/25/10 09:50
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 06:25	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/02/10 06:25	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/02/10 06:25	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/02/10 06:25	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/02/10 06:25	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/02/10 06:25	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 06:25	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 06:25	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 06:25	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 06:25	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 06:25	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*106 %*	*51-122*	*0K01026*	*EPA 8260B*	*11/02/10 06:25*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*0K01026*	*EPA 8260B*	*11/02/10 06:25*	*JKG*	
Toluene-d8	*52*	*1*	*50.0*	*104 %*	*69-110*	*0K01026*	*EPA 8260B*	*11/02/10 06:25*	*JKG*	

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Description: 9209-TB1ad
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-13
Sampled: 10/25/10 09:50
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 16:20	NLH	

www.encolabs.com

Description: 9209-TB1ad
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-13
Sampled: 10/25/10 09:50
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.785**	JB	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 10:35	VLO	J-01
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 13:52	JDH	
Barium [7440-39-3] ^	**7.98**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 13:52	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 13:52	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 13:52	JDH	
Chromium [7440-47-3] ^	**11.4**		ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 13:52	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 13:52	JDH	
Copper [7440-50-8] ^	**1.83**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 13:52	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 13:52	JDH	
Nickel [7440-02-0] ^	**1.92**	J	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 13:52	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 10:35	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 13:52	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 10:35	VLO	
Vanadium [7440-62-2] ^	**6.13**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 13:52	JDH	
Zinc [7440-66-6] ^	**7.70**	J	ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 13:52	JDH	

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

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Description: 9209-MW36 | **Lab Sample ID:** C012688-14 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 09:15 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 06:54	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 06:54	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
1,1-Dichloroethane [75-34-3] ^	**14**		ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 06:54	JKG	
1,1-Dichloroethene [75-35-4] ^	**0.42**	J	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 06:54	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/02/10 06:54	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/02/10 06:54	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 06:54	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 06:54	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/02/10 06:54	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**1.3**		ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/02/10 06:54	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 06:54	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 06:54	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/02/10 06:54	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 06:54	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 06:54	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/02/10 06:54	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/02/10 06:54	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 06:54	JKG	
Benzene [71-43-2] ^	**0.45**	J	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 06:54	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 06:54	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 06:54	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 06:54	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 06:54	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 06:54	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 06:54	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/02/10 06:54	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**6.3**		ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 06:54	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 06:54	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 06:54	JKG	
Dichlorodifluoromethane [75-71-8] ^	**1.4**	J	ug/L	1	0.38	1.0	5	EPA 8260B	11/02/10 06:54	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/02/10 06:54	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/02/10 06:54	JKG	

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Description: 9209-MW36 | **Lab Sample ID:** C012688-14 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 09:15 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 06:54	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/02/10 06:54	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/02/10 06:54	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/02/10 06:54	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/02/10 06:54	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/02/10 06:54	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
Tetrachloroethene [127-18-4] ^	**1.1**		ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 06:54	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 06:54	JKG	
Trichloroethene [79-01-6] ^	**1.7**		ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 06:54	JKG	
Vinyl chloride [75-01-4] ^	**0.96**	J	ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 06:54	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 06:54	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*0K01026*	*EPA 8260B*	*11/02/10 06:54*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*0K01026*	*EPA 8260B*	*11/02/10 06:54*	*JKG*	
Toluene-d8	*52*	*1*	*50.0*	*103 %*	*69-110*	*0K01026*	*EPA 8260B*	*11/02/10 06:54*	*JKG*	

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Description: 9209-MW36
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-14
Sampled: 10/26/10 09:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/28/10 16:22	NLH	

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Description: 9209-MW36 | **Lab Sample ID:** C012688-14 | **Received:** 10/26/10 13:50

Matrix: Ground Water | **Sampled:** 10/26/10 09:15 | **Work Order:** C012688

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 10:39	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 13:55	JDH	
Barium [7440-39-3] ^	**46.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 13:55	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 13:55	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 13:55	JDH	
Chromium [7440-47-3] ^	**5.94**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 13:55	JDH	
Cobalt [7440-48-4] ^	**1.58**	J	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 13:55	JDH	
Copper [7440-50-8] ^	**6.28**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 13:55	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 13:55	JDH	
Nickel [7440-02-0] ^	**2.01**	J	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 13:55	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 10:39	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 13:55	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 10:39	VLO	
Vanadium [7440-62-2] ^	**7.32**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 13:55	JDH	
Zinc [7440-66-6] ^	**12.2**		ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 13:55	JDH	

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Description: 9209-MW36
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-14
Sampled: 10/26/10 09:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	10/27/10 13:13	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**51000**		ug/L	1	2800	10000	NE	SM 5220D	11/04/10 16:40	JOC	
Chloride [16887-00-6] ^	**7200**		ug/L	1	18	5000	NE	EPA 300.0	11/02/10 04:18	PEV	
Nitrate as N [14797-55-8] ^	**190**	J	ug/L	1	25	100	10000	EPA 353.2	11/03/10 12:07	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**200**		ug/L	1	25	100	NE	EPA 353.2	11/02/10 08:39	PEV	
Nitrite as N [14797-65-0] ^	**7.6**	JB	ug/L	1	5.6	100	1000	EPA 353.2	10/27/10 07:41	PEV	J-01
Sulfate as SO4 [14808-79-8] ^	**4900**	J	ug/L	1	120	5000	250000	EPA 300.0	11/02/10 04:18	PEV	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	11/01/10 11:10	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**78000**		ug/L	1	8000	15000		EPA 310.2	10/28/10 10:10	PEV	

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Description: 9209-MW36
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-14
Sampled: 10/26/10 09:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	37	U	ug/L	1	37	50		SM18 3500-Fe D	10/28/10 14:27	NP	Q
Total Organic Carbon [ECL-0165] ^	**1300**		ug/L	1	320	1000	NE	SM18 5310B	11/04/10 19:18	RSA	

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Description: 9209-MW36
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-14
Sampled: 10/26/10 09:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**175000**		ug/L	1	2000	2500	NE	RSK-175	10/27/10 13:11	LAC	
Ethane [74-84-0]	**1.52**	J	ug/L	1	1.50	2.00	NE	RSK-175	10/27/10 13:11	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	10/27/10 13:11	LAC	
Methane [74-82-8]	**307**		ug/L	1	0.490	1.00	NE	RSK-175	10/27/10 13:11	LAC	

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Description: 9209-MW36
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-14
Sampled: 10/26/10 09:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012688

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	10/29/10 10:38	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	10/29/10 10:38	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	10/29/10 10:38	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	10/29/10 10:38	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	10/29/10 10:38	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	10/29/10 10:38	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	10/29/10 10:38	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	10/29/10 10:38	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	10/29/10 10:38	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	10/29/10 10:38	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*52000*	*1*	*50000*	*104 %*	*80-124*	*0J27012*	*VGC-13*	*10/29/10 10:38*	*MEF*	

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

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Description: 9209-TripBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-15
Sampled: 10/25/10 08:45
Sampled By: ENCO

Received: 10/26/10 13:50
Work Order: C012688

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 15:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/01/10 15:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/01/10 15:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/01/10 15:32	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/01/10 15:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/01/10 15:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/01/10 15:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/01/10 15:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/01/10 15:32	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/01/10 15:32	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/01/10 15:32	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/01/10 15:32	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/01/10 15:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/01/10 15:32	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/01/10 15:32	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/01/10 15:32	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/01/10 15:32	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/01/10 15:32	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/01/10 15:32	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/01/10 15:32	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/01/10 15:32	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/01/10 15:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/01/10 15:32	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/01/10 15:32	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/01/10 15:32	JKG	
Chloromethane [74-87-3] ^	**0.62**	J	ug/L	1	0.34	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/01/10 15:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/01/10 15:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/01/10 15:32	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/01/10 15:32	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/01/10 15:32	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/01/10 15:32	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/01/10 15:32	JKG	

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Description: 9209-TripBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C012688-15
Sampled: 10/25/10 08:45
Sampled By: ENCO

Received: 10/26/10 13:50
Work Order: C012688

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/01/10 15:32	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/01/10 15:32	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/01/10 15:32	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/01/10 15:32	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/01/10 15:32	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/01/10 15:32	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/01/10 15:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/01/10 15:32	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/01/10 15:32	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/01/10 15:32	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/01/10 15:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*51-122*	*0K01020*	*EPA 8260B*	*11/01/10 15:32*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*68-117*	*0K01020*	*EPA 8260B*	*11/01/10 15:32*	*JKG*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*69-110*	*0K01020*	*EPA 8260B*	*11/01/10 15:32*	*JKG*	

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

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Description: 9209-MW6d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-01
Sampled: 10/27/10 10:40
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 23:17	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 23:17	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
1,1-Dichloroethane [75-34-3] ^	**5.2**		ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 23:17	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 23:17	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/02/10 23:17	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/02/10 23:17	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 23:17	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 23:17	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/02/10 23:17	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**0.67**	J	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/02/10 23:17	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 23:17	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 23:17	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/02/10 23:17	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 23:17	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 23:17	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/02/10 23:17	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/02/10 23:17	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 23:17	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 23:17	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 23:17	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 23:17	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 23:17	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 23:17	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 23:17	JKG	
Chloroform [67-66-3] ^	**1.2**	J	ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 23:17	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/02/10 23:17	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.2**	J	ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 23:17	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 23:17	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 23:17	JKG	
Dichlorodifluoromethane [75-71-8] ^	**3.0**	J	ug/L	1	0.38	1.0	5	EPA 8260B	11/02/10 23:17	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/02/10 23:17	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/02/10 23:17	JKG	

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Description: 9209-MW6d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-01
Sampled: 10/27/10 10:40
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 23:17	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/02/10 23:17	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/02/10 23:17	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/02/10 23:17	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/02/10 23:17	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/02/10 23:17	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
Tetrachloroethene [127-18-4] ^	**0.81**	J	ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 23:17	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 23:17	JKG	
Trichloroethene [79-01-6] ^	**1.1**		ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
Trichlorofluoromethane [75-69-4] ^	**1.0**		ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 23:17	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 23:17	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 23:17	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*111 %*	*51-122*	*0K02030*	*EPA 8260B*	*11/02/10 23:17*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*0K02030*	*EPA 8260B*	*11/02/10 23:17*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*103 %*	*69-110*	*0K02030*	*EPA 8260B*	*11/02/10 23:17*	*JKG*	

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Description: 9209-MW6d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-01
Sampled: 10/27/10 10:40
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/29/10 15:44	NLH	

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Description: 9209-MW6d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-01
Sampled: 10/27/10 10:40
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**3.99**	J	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 11:37	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 15:19	JDH	
Barium [7440-39-3] ^	**52.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 15:19	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 15:19	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 15:19	JDH	
Chromium [7440-47-3] ^	**2.17**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 15:19	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 15:19	JDH	
Copper [7440-50-8] ^	**3.76**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 15:19	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:19	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 15:19	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 11:37	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:19	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 11:37	VLO	
Vanadium [7440-62-2] ^	**4.41**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 15:19	JDH	
Zinc [7440-66-6] ^	**12.5**		ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 15:19	JDH	

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Description: 9209-MW7 | **Lab Sample ID:** C013007-02 | **Received:** 10/27/10 12:15

Matrix: Ground Water | **Sampled:** 10/27/10 07:40 | **Work Order:** C013007

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 23:46	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 23:46	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.61**	J	ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 23:46	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 23:46	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/02/10 23:46	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/02/10 23:46	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 23:46	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
1,2-Dichlorobenzene [95-50-1] ^	**0.72**	J	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 23:46	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/02/10 23:46	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**2.5**		ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/02/10 23:46	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 23:46	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 23:46	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/02/10 23:46	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 23:46	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 23:46	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/02/10 23:46	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/02/10 23:46	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 23:46	JKG	
Benzene [71-43-2] ^	**2.3**		ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 23:46	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 23:46	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 23:46	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 23:46	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
Chlorobenzene [108-90-7] ^	**0.42**	J	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 23:46	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 23:46	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 23:46	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/02/10 23:46	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.6**	J	ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 23:46	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 23:46	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 23:46	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/02/10 23:46	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/02/10 23:46	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/02/10 23:46	JKG	

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Description: 9209-MW7 | **Lab Sample ID:** C013007-02 | **Received:** 10/27/10 12:15

Matrix: Ground Water | **Sampled:** 10/27/10 07:40 | **Work Order:** C013007

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 23:46	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/02/10 23:46	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/02/10 23:46	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/02/10 23:46	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/02/10 23:46	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/02/10 23:46	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
Toluene [108-88-3] ^	**0.49**	J	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 23:46	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 23:46	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 23:46	JKG	
Vinyl chloride [75-01-4] ^	**2.9**		ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 23:46	JKG	
Xylenes (Total) [1330-20-7] ^	**1.2**	J	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 23:46	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*51-122*	*0K02030*	*EPA 8260B*	*11/02/10 23:46*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*0K02030*	*EPA 8260B*	*11/02/10 23:46*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*101 %*	*69-110*	*0K02030*	*EPA 8260B*	*11/02/10 23:46*	*JKG*	

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Description: 9209-MW7
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-02
Sampled: 10/27/10 07:40
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/29/10 15:47	NLH	

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Description: 9209-MW7 | **Lab Sample ID:** C013007-02 | **Received:** 10/27/10 12:15

Matrix: Ground Water | **Sampled:** 10/27/10 07:40 | **Work Order:** C013007

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 11:40	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 15:32	JDH	
Barium [7440-39-3] ^	**66.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 15:32	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 15:32	JDH	
Cadmium [7440-43-9] ^	**1.32**		ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 15:32	JDH	
Chromium [7440-47-3] ^	**6.18**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 15:32	JDH	
Cobalt [7440-48-4] ^	**33.8**		ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 15:32	JDH	
Copper [7440-50-8] ^	**10.1**		ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 15:32	JDH	
Lead [7439-92-1] ^	**3.50**	J	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:32	JDH	
Nickel [7440-02-0] ^	**15.1**	J	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 15:32	JDH	
Selenium [7782-49-2] ^	**0.999**	J	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 11:40	VLO	
Silver [7440-22-4] ^	**2.68**	J	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:32	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 11:40	VLO	
Vanadium [7440-62-2] ^	**8.20**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 15:32	JDH	
Zinc [7440-66-6] ^	**27.7**		ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 15:32	JDH	

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Description: 9209-MW8d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-03
Sampled: 10/27/10 10:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 00:15	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/03/10 00:15	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/03/10 00:15	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/03/10 00:15	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/03/10 00:15	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/03/10 00:15	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/10 00:15	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/03/10 00:15	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/03/10 00:15	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/03/10 00:15	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/03/10 00:15	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/03/10 00:15	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/03/10 00:15	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/10 00:15	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/10 00:15	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/03/10 00:15	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/03/10 00:15	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/03/10 00:15	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/03/10 00:15	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/03/10 00:15	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/03/10 00:15	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/03/10 00:15	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/03/10 00:15	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/03/10 00:15	JKG	
Chloroform [67-66-3] ^	**0.61**	J	ug/L	1	0.20	1.0	5	EPA 8260B	11/03/10 00:15	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/03/10 00:15	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/03/10 00:15	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/03/10 00:15	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/03/10 00:15	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/03/10 00:15	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/03/10 00:15	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/03/10 00:15	JKG	

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Description: 9209-MW8d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-03
Sampled: 10/27/10 10:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/03/10 00:15	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/03/10 00:15	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/03/10 00:15	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/03/10 00:15	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/03/10 00:15	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/03/10 00:15	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/03/10 00:15	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/03/10 00:15	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/03/10 00:15	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/03/10 00:15	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 00:15	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*51-122*	*0K02030*	*EPA 8260B*	*11/03/10 00:15*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*68-117*	*0K02030*	*EPA 8260B*	*11/03/10 00:15*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*101 %*	*69-110*	*0K02030*	*EPA 8260B*	*11/03/10 00:15*	*JKG*	

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Description: 9209-MW8d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-03
Sampled: 10/27/10 10:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/29/10 15:50	NLH	

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Description: 9209-MW8d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-03
Sampled: 10/27/10 10:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**3.52**	J	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 11:44	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 15:34	JDH	
Barium [7440-39-3] ^	**68.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 15:34	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 15:34	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 15:34	JDH	
Chromium [7440-47-3] ^	**7.58**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 15:34	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 15:34	JDH	
Copper [7440-50-8] ^	**4.55**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 15:34	JDH	
Lead [7439-92-1] ^	**3.62**	J	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:34	JDH	
Nickel [7440-02-0] ^	**2.06**	J	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 15:34	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 11:44	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:34	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 11:44	VLO	
Vanadium [7440-62-2] ^	**7.95**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 15:34	JDH	
Zinc [7440-66-6] ^	**16.6**		ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 15:34	JDH	

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

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Description: 9209-MW10d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-04
Sampled: 10/27/10 11:25
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 00:45	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/03/10 00:45	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
1,1-Dichloroethane [75-34-3] ^	**2.5**	J	ug/L	1	0.33	1.0	5	EPA 8260B	11/03/10 00:45	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/03/10 00:45	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/03/10 00:45	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/03/10 00:45	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/10 00:45	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/03/10 00:45	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/03/10 00:45	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/03/10 00:45	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/03/10 00:45	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/03/10 00:45	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/03/10 00:45	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/10 00:45	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/10 00:45	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/03/10 00:45	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/03/10 00:45	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/03/10 00:45	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/03/10 00:45	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/03/10 00:45	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/03/10 00:45	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/03/10 00:45	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/03/10 00:45	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/03/10 00:45	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/03/10 00:45	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/03/10 00:45	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.69**	J	ug/L	1	0.36	1.0	5	EPA 8260B	11/03/10 00:45	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/03/10 00:45	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/03/10 00:45	JKG	
Dichlorodifluoromethane [75-71-8] ^	**1.1**	J	ug/L	1	0.38	1.0	5	EPA 8260B	11/03/10 00:45	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/03/10 00:45	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/03/10 00:45	JKG	

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Description: 9209-MW10d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-04
Sampled: 10/27/10 11:25
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/03/10 00:45	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/03/10 00:45	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/03/10 00:45	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/03/10 00:45	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/03/10 00:45	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/03/10 00:45	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
Tetrachloroethene [127-18-4] ^	**1.2**		ug/L	1	0.36	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/03/10 00:45	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/03/10 00:45	JKG	
Trichloroethene [79-01-6] ^	**0.79**	J	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
Trichlorofluoromethane [75-69-4] ^	**0.50**	J	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/03/10 00:45	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/03/10 00:45	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 00:45	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*110 %*	*51-122*	*0K02030*	*EPA 8260B*	*11/03/10 00:45*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*0K02030*	*EPA 8260B*	*11/03/10 00:45*	*JKG*	
Toluene-d8	*52*	*1*	*50.0*	*103 %*	*69-110*	*0K02030*	*EPA 8260B*	*11/03/10 00:45*	*JKG*	

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Description: 9209-MW10d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-04
Sampled: 10/27/10 11:25
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/29/10 15:22	NLH	

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Description: 9209-MW10d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-04
Sampled: 10/27/10 11:25
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 11:47	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 15:38	JDH	
Barium [7440-39-3] ^	**3.34**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 15:38	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 15:38	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 15:38	JDH	
Chromium [7440-47-3] ^	**4.50**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 15:38	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 15:38	JDH	
Copper [7440-50-8] ^	**1.61**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 15:38	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:38	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 15:38	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 11:47	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:38	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 11:47	VLO	
Vanadium [7440-62-2] ^	**1.55**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 15:38	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 15:38	JDH	

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

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Description: 9209-MW11d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-05
Sampled: 10/27/10 09:15
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 01:14	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/03/10 01:14	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/03/10 01:14	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/03/10 01:14	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/03/10 01:14	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/03/10 01:14	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/10 01:14	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/03/10 01:14	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/03/10 01:14	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/03/10 01:14	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/03/10 01:14	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/03/10 01:14	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/03/10 01:14	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/10 01:14	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/10 01:14	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/03/10 01:14	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/03/10 01:14	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/03/10 01:14	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/03/10 01:14	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/03/10 01:14	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/03/10 01:14	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/03/10 01:14	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/03/10 01:14	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/03/10 01:14	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/03/10 01:14	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/03/10 01:14	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/03/10 01:14	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/03/10 01:14	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/03/10 01:14	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/03/10 01:14	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/03/10 01:14	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/03/10 01:14	JKG	

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Description: 9209-MW11d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-05
Sampled: 10/27/10 09:15
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/03/10 01:14	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/03/10 01:14	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/03/10 01:14	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/03/10 01:14	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/03/10 01:14	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/03/10 01:14	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/03/10 01:14	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/03/10 01:14	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/03/10 01:14	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/03/10 01:14	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 01:14	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*110 %*	*51-122*	*0K02030*	*EPA 8260B*	*11/03/10 01:14*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*0K02030*	*EPA 8260B*	*11/03/10 01:14*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*0K02030*	*EPA 8260B*	*11/03/10 01:14*	*JKG*	

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Description: 9209-MW11d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-05
Sampled: 10/27/10 09:15
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/29/10 15:53	NLH	

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Description: 9209-MW11d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-05
Sampled: 10/27/10 09:15
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.73**	J	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 11:51	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 15:41	JDH	
Barium [7440-39-3] ^	**41.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 15:41	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 15:41	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 15:41	JDH	
Chromium [7440-47-3] ^	**3.56**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 15:41	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 15:41	JDH	
Copper [7440-50-8] ^	**2.79**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 15:41	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:41	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 15:41	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 11:51	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:41	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 11:51	VLO	
Vanadium [7440-62-2] ^	**3.82**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 15:41	JDH	
Zinc [7440-66-6] ^	**9.73**	J	ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 15:41	JDH	

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

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Description: 9209-MW23 | **Lab Sample ID:** C013007-06 | **Received:** 10/27/10 12:15

Matrix: Ground Water | **Sampled:** 10/27/10 07:00 | **Work Order:** C013007

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 01:43	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/03/10 01:43	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/03/10 01:43	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/03/10 01:43	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/03/10 01:43	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/03/10 01:43	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/10 01:43	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/03/10 01:43	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/03/10 01:43	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/03/10 01:43	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/03/10 01:43	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/03/10 01:43	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/03/10 01:43	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/10 01:43	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/10 01:43	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/03/10 01:43	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/03/10 01:43	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/03/10 01:43	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/03/10 01:43	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/03/10 01:43	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/03/10 01:43	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/03/10 01:43	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/03/10 01:43	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/03/10 01:43	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/03/10 01:43	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/03/10 01:43	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/03/10 01:43	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/03/10 01:43	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/03/10 01:43	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/03/10 01:43	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/03/10 01:43	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/03/10 01:43	JKG	

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Description: 9209-MW23 | **Lab Sample ID:** C013007-06 | **Received:** 10/27/10 12:15

Matrix: Ground Water | **Sampled:** 10/27/10 07:00 | **Work Order:** C013007

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/03/10 01:43	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/03/10 01:43	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/03/10 01:43	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/03/10 01:43	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/03/10 01:43	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/03/10 01:43	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/03/10 01:43	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/03/10 01:43	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/03/10 01:43	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/03/10 01:43	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 01:43	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*51-122*	*0K02030*	*EPA 8260B*	*11/03/10 01:43*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*0K02030*	*EPA 8260B*	*11/03/10 01:43*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*101 %*	*69-110*	*0K02030*	*EPA 8260B*	*11/03/10 01:43*	*JKG*	

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Description: 9209-MW23
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-06
Sampled: 10/27/10 07:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/29/10 15:56	NLH	

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Description: 9209-MW23 | **Lab Sample ID:** C013007-06 | **Received:** 10/27/10 12:15

Matrix: Ground Water | **Sampled:** 10/27/10 07:00 | **Work Order:** C013007

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 11:55	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 15:44	JDH	
Barium [7440-39-3] ^	**50.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 15:44	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 15:44	JDH	
Cadmium [7440-43-9] ^	**0.562**	J	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 15:44	JDH	
Chromium [7440-47-3] ^	**8.39**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 15:44	JDH	
Cobalt [7440-48-4] ^	**1.18**	J	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 15:44	JDH	
Copper [7440-50-8] ^	**14.2**		ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 15:44	JDH	
Lead [7439-92-1] ^	**7.54**	J	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:44	JDH	
Nickel [7440-02-0] ^	**2.91**	J	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 15:44	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 11:55	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:44	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 11:55	VLO	
Vanadium [7440-62-2] ^	**14.0**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 15:44	JDH	
Zinc [7440-66-6] ^	**20.3**		ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 15:44	JDH	

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

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-07
Sampled: 10/26/10 17:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 07:04	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/03/10 07:04	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/03/10 07:04	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/03/10 07:04	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/03/10 07:04	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/03/10 07:04	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/10 07:04	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/03/10 07:04	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/03/10 07:04	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/03/10 07:04	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/03/10 07:04	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/03/10 07:04	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/03/10 07:04	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/10 07:04	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/10 07:04	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/03/10 07:04	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/03/10 07:04	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/03/10 07:04	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/03/10 07:04	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/03/10 07:04	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/03/10 07:04	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/03/10 07:04	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/03/10 07:04	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/03/10 07:04	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/03/10 07:04	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/03/10 07:04	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/03/10 07:04	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/03/10 07:04	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/03/10 07:04	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/03/10 07:04	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/03/10 07:04	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/03/10 07:04	JKG	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-07
Sampled: 10/26/10 17:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/03/10 07:04	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/03/10 07:04	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/03/10 07:04	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/03/10 07:04	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/03/10 07:04	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/03/10 07:04	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/03/10 07:04	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/03/10 07:04	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/03/10 07:04	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/03/10 07:04	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 07:04	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*51-122*	*0K02032*	*EPA 8260B*	*11/03/10 07:04*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*103 %*	*68-117*	*0K02032*	*EPA 8260B*	*11/03/10 07:04*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*69-110*	*0K02032*	*EPA 8260B*	*11/03/10 07:04*	*JKG*	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-07
Sampled: 10/26/10 17:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/29/10 16:00	NLH	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-07
Sampled: 10/26/10 17:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.08**	J	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 11:11	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 15:47	JDH	
Barium [7440-39-3] ^	**25.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 15:47	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 15:47	JDH	
Cadmium [7440-43-9] ^	**0.385**	J	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 15:47	JDH	
Chromium [7440-47-3] ^	**3.62**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 15:47	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 15:47	JDH	
Copper [7440-50-8] ^	**1.78**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 15:47	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:47	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 15:47	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 11:11	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:47	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 11:11	VLO	
Vanadium [7440-62-2] ^	**4.05**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 15:47	JDH	
Zinc [7440-66-6] ^	**7.70**	J	ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 15:47	JDH	

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

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Description: 9209-MW24 | **Lab Sample ID:** C013007-08 | **Received:** 10/27/10 12:15

Matrix: Ground Water | **Sampled:** 10/27/10 07:25 | **Work Order:** C013007

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 07:33	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/03/10 07:33	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/03/10 07:33	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/03/10 07:33	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/03/10 07:33	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/03/10 07:33	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/10 07:33	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/03/10 07:33	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/03/10 07:33	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/03/10 07:33	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/03/10 07:33	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/03/10 07:33	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/03/10 07:33	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/10 07:33	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/10 07:33	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/03/10 07:33	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/03/10 07:33	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/03/10 07:33	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/03/10 07:33	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/03/10 07:33	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/03/10 07:33	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/03/10 07:33	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/03/10 07:33	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/03/10 07:33	JKG	
Chloroform [67-66-3] ^	**11**		ug/L	1	0.20	1.0	5	EPA 8260B	11/03/10 07:33	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/03/10 07:33	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/03/10 07:33	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/03/10 07:33	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/03/10 07:33	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/03/10 07:33	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/03/10 07:33	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/03/10 07:33	JKG	

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Description: 9209-MW24 | **Lab Sample ID:** C013007-08 | **Received:** 10/27/10 12:15

Matrix: Ground Water | **Sampled:** 10/27/10 07:25 | **Work Order:** C013007

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/03/10 07:33	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/03/10 07:33	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/03/10 07:33	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/03/10 07:33	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/03/10 07:33	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/03/10 07:33	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/03/10 07:33	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/03/10 07:33	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/03/10 07:33	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/03/10 07:33	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 07:33	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*51-122*	*0K02032*	*EPA 8260B*	*11/03/10 07:33*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*101 %*	*68-117*	*0K02032*	*EPA 8260B*	*11/03/10 07:33*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*101 %*	*69-110*	*0K02032*	*EPA 8260B*	*11/03/10 07:33*	*JKG*	

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Description: 9209-MW24
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-08
Sampled: 10/27/10 07:25
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/29/10 16:03	NLH	

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Description: 9209-MW24 | **Lab Sample ID:** C013007-08 | **Received:** 10/27/10 12:15

Matrix: Ground Water | **Sampled:** 10/27/10 07:25 | **Work Order:** C013007

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 11:58	VLO	
Arsenic [7440-38-2] ^	**3.63**	J	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 15:50	JDH	
Barium [7440-39-3] ^	**50.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 15:50	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 15:50	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 15:50	JDH	
Chromium [7440-47-3] ^	**3.49**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 15:50	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 15:50	JDH	
Copper [7440-50-8] ^	**5.21**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 15:50	JDH	
Lead [7439-92-1] ^	**6.78**	J	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:50	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 15:50	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 11:58	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:50	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 11:58	VLO	
Vanadium [7440-62-2] ^	**8.13**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 15:50	JDH	
Zinc [7440-66-6] ^	**50.4**		ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 15:50	JDH	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-09
Sampled: 10/27/10 08:20
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 08:02	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/03/10 08:02	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/03/10 08:02	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/03/10 08:02	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/03/10 08:02	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/03/10 08:02	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/10 08:02	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/03/10 08:02	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/03/10 08:02	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/03/10 08:02	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/03/10 08:02	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/03/10 08:02	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/03/10 08:02	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/10 08:02	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/10 08:02	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/03/10 08:02	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/03/10 08:02	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/03/10 08:02	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/03/10 08:02	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/03/10 08:02	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/03/10 08:02	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/03/10 08:02	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/03/10 08:02	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/03/10 08:02	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/03/10 08:02	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/03/10 08:02	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/03/10 08:02	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/03/10 08:02	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/03/10 08:02	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/03/10 08:02	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/03/10 08:02	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/03/10 08:02	JKG	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-09
Sampled: 10/27/10 08:20
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/03/10 08:02	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/03/10 08:02	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/03/10 08:02	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/03/10 08:02	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/03/10 08:02	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/03/10 08:02	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/03/10 08:02	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/03/10 08:02	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/03/10 08:02	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/03/10 08:02	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 08:02	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*56*	*1*	*50.0*	*112 %*	*51-122*	*0K02032*	*EPA 8260B*	*11/03/10 08:02*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*103 %*	*68-117*	*0K02032*	*EPA 8260B*	*11/03/10 08:02*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*69-110*	*0K02032*	*EPA 8260B*	*11/03/10 08:02*	*JKG*	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-09
Sampled: 10/27/10 08:20
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/29/10 16:06	NLH	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-09
Sampled: 10/27/10 08:20
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.542**	J	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 12:02	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 15:53	JDH	
Barium [7440-39-3] ^	**30.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 15:53	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 15:53	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 15:53	JDH	
Chromium [7440-47-3] ^	**5.46**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 15:53	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 15:53	JDH	
Copper [7440-50-8] ^	**2.91**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 15:53	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:53	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 15:53	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 12:02	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:53	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 12:02	VLO	
Vanadium [7440-62-2] ^	**2.09**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 15:53	JDH	
Zinc [7440-66-6] ^	**15.7**		ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 15:53	JDH	

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

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-10
Sampled: 10/27/10 11:15
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 08:33	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/03/10 08:33	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
1,1-Dichloroethane [75-34-3] ^	**11**		ug/L	1	0.33	1.0	5	EPA 8260B	11/03/10 08:33	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/03/10 08:33	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/03/10 08:33	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/03/10 08:33	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/10 08:33	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/03/10 08:33	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/03/10 08:33	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**0.53**	J	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/03/10 08:33	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/03/10 08:33	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/03/10 08:33	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/03/10 08:33	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/10 08:33	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/10 08:33	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/03/10 08:33	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/03/10 08:33	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/03/10 08:33	JKG	
Benzene [71-43-2] ^	**0.49**	J	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/03/10 08:33	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/03/10 08:33	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/03/10 08:33	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/03/10 08:33	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/03/10 08:33	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/03/10 08:33	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/03/10 08:33	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/03/10 08:33	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**5.0**		ug/L	1	0.36	1.0	5	EPA 8260B	11/03/10 08:33	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/03/10 08:33	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/03/10 08:33	JKG	
Dichlorodifluoromethane [75-71-8] ^	**2.2**	J	ug/L	1	0.38	1.0	5	EPA 8260B	11/03/10 08:33	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/03/10 08:33	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/03/10 08:33	JKG	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-10
Sampled: 10/27/10 11:15
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/03/10 08:33	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/03/10 08:33	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/03/10 08:33	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/03/10 08:33	JKG	
Methylene chloride [75-09-2] ^	**0.58**	J	ug/L	1	0.53	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/03/10 08:33	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/03/10 08:33	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/03/10 08:33	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/03/10 08:33	JKG	
Trichloroethene [79-01-6] ^	**1.9**		ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/03/10 08:33	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/03/10 08:33	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 08:33	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*51-122*	*0K02032*	*EPA 8260B*	*11/03/10 08:33*	*JKG*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*0K02032*	*EPA 8260B*	*11/03/10 08:33*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*101 %*	*69-110*	*0K02032*	*EPA 8260B*	*11/03/10 08:33*	*JKG*	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-10
Sampled: 10/27/10 11:15
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/29/10 16:09	NLH	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-10
Sampled: 10/27/10 11:15
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.269**	J	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 12:05	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 14:38	JDH	
Barium [7440-39-3] ^	**79.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 14:38	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 14:38	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 14:38	JDH	
Chromium [7440-47-3] ^	**69.2**		ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 14:38	JDH	
Cobalt [7440-48-4] ^	**2.30**	J	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 14:38	JDH	
Copper [7440-50-8] ^	**20.3**		ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 14:38	JDH	
Lead [7439-92-1] ^	**2.50**	J	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 14:38	JDH	
Nickel [7440-02-0] ^	**32.6**	J	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 14:38	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 12:05	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 14:38	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 12:05	VLO	
Vanadium [7440-62-2] ^	**20.7**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 14:38	JDH	
Zinc [7440-66-6] ^	**12.3**		ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 14:38	JDH	

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

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Description: 9209-DUP
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-11
Sampled: 10/27/10 12:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 09:02	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/03/10 09:02	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/03/10 09:02	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/03/10 09:02	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/03/10 09:02	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/03/10 09:02	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/10 09:02	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/03/10 09:02	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/03/10 09:02	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/03/10 09:02	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/03/10 09:02	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/03/10 09:02	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/03/10 09:02	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/10 09:02	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/10 09:02	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/03/10 09:02	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/03/10 09:02	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/03/10 09:02	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/03/10 09:02	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/03/10 09:02	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/03/10 09:02	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/03/10 09:02	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/03/10 09:02	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/03/10 09:02	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/03/10 09:02	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/03/10 09:02	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/03/10 09:02	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/03/10 09:02	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/03/10 09:02	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/03/10 09:02	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/03/10 09:02	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/03/10 09:02	JKG	

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Description: 9209-DUP
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-11
Sampled: 10/27/10 12:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/03/10 09:02	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/03/10 09:02	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/03/10 09:02	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/03/10 09:02	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/03/10 09:02	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/03/10 09:02	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/03/10 09:02	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/03/10 09:02	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/03/10 09:02	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/03/10 09:02	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 09:02	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*51-122*	*0K02032*	*EPA 8260B*	*11/03/10 09:02*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*0K02032*	*EPA 8260B*	*11/03/10 09:02*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*69-110*	*0K02032*	*EPA 8260B*	*11/03/10 09:02*	*JKG*	

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Description: 9209-DUP
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-11
Sampled: 10/27/10 12:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/29/10 16:18	NLH	

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Description: 9209-DUP
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-11
Sampled: 10/27/10 12:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 12:16	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 15:56	JDH	
Barium [7440-39-3] ^	**54.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 15:56	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 15:56	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 15:56	JDH	
Chromium [7440-47-3] ^	**9.05**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 15:56	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 15:56	JDH	
Copper [7440-50-8] ^	**15.7**		ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 15:56	JDH	
Lead [7439-92-1] ^	**7.75**	J	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:56	JDH	
Nickel [7440-02-0] ^	**3.58**	J	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 15:56	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 12:16	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:56	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 12:16	VLO	
Vanadium [7440-62-2] ^	**14.5**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 15:56	JDH	
Zinc [7440-66-6] ^	**19.4**		ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 15:56	JDH	

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

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Description: 9209-EQBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-12
Sampled: 10/27/10 09:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 09:31	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/03/10 09:31	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/03/10 09:31	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/03/10 09:31	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	5	EPA 8260B	11/03/10 09:31	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	10	EPA 8260B	11/03/10 09:31	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/10 09:31	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/03/10 09:31	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	11/03/10 09:31	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	15	EPA 8260B	11/03/10 09:31	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/03/10 09:31	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/03/10 09:31	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	11/03/10 09:31	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/10 09:31	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/10 09:31	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	11/03/10 09:31	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	11/03/10 09:31	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/03/10 09:31	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/03/10 09:31	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/03/10 09:31	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/03/10 09:31	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/03/10 09:31	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/03/10 09:31	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/03/10 09:31	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/03/10 09:31	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	11/03/10 09:31	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/03/10 09:31	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/03/10 09:31	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/03/10 09:31	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	5	EPA 8260B	11/03/10 09:31	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	11/03/10 09:31	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	10	EPA 8260B	11/03/10 09:31	JKG	

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Description: 9209-EQBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-12
Sampled: 10/27/10 09:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/03/10 09:31	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	11/03/10 09:31	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	11/03/10 09:31	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	11/03/10 09:31	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	10	EPA 8260B	11/03/10 09:31	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	11/03/10 09:31	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/03/10 09:31	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/03/10 09:31	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/03/10 09:31	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/03/10 09:31	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/03/10 09:31	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*111 %*	*51-122*	*0K02032*	*EPA 8260B*	*11/03/10 09:31*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*0K02032*	*EPA 8260B*	*11/03/10 09:31*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*69-110*	*0K02032*	*EPA 8260B*	*11/03/10 09:31*	*JKG*	

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Description: 9209-EQBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-12
Sampled: 10/27/10 09:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/29/10 16:21	NLH	

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Description: 9209-EQBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C013007-12
Sampled: 10/27/10 09:00
Sampled By: Aaron Weispfenning

Received: 10/27/10 12:15
Work Order: C013007

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.388**	J	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 12:20	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 15:58	JDH	
Barium [7440-39-3] ^	1.00	U	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 15:58	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 15:58	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 15:58	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 15:58	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 15:58	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 15:58	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:58	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 15:58	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 12:20	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 15:58	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 12:20	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 15:58	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 15:58	JDH	

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

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K01020 - EPA 5030B_MS

Blank (0K01020-BLK1) Prepared: 11/01/2010 12:24 Analyzed: 11/01/2010 12:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,1-Dichloropropene	0.32	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.36	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,3-Dichlorobenzene	0.30	U	1.0	ug/L							
1,3-Dichloropropane	0.32	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2,2-Dichloropropane	0.55	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
3-Chloropropene	0.28	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acetonitrile	**15**		10	ug/L							
Acrolein	3.0	U	10	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
Chloroprene	0.24	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Dichlorodifluoromethane	0.38	U	1.0	ug/L							
Ethyl Methacrylate	0.32	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Hexachlorobutadiene	0.35	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Isobutyl alcohol	14	U	50	ug/L							
Methacrylonitrile	2.8	U	10	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K01020 - EPA 5030B_MS

Blank (0K01020-BLK1) Continued Prepared: 11/01/2010 12:24 Analyzed: 11/01/2010 12:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl Methacrylate	0.53	U	1.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Naphthalene	0.39	U	1.0	ug/L							
Propionitrile	4.8	U	10	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*105*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*106*	*69-110*			

LCS (0K01020-BS1) Prepared: 11/01/2010 12:24 Analyzed: 11/01/2010 13:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		102	75-133			
Benzene	19		1.0	ug/L	20.0		96	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Toluene	21		1.0	ug/L	20.0		103	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	75-115			
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*103*	*69-110*			

Matrix Spike (0K01020-MS1) Prepared: 11/01/2010 12:24 Analyzed: 11/01/2010 13:39

Source: C013061-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	106	75-133			
Benzene	20		1.0	ug/L	20.0	0.20 U	99	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	102	83-117			
Toluene	21		1.0	ug/L	20.0	0.27 U	106	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	100	75-115			
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*103*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*105*	*69-110*			

Matrix Spike Dup (0K01020-MSD1) Prepared: 11/01/2010 12:24 Analyzed: 11/01/2010 14:07

Source: C013061-05

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K01020 - EPA 5030B_MS

Matrix Spike Dup (0K01020-MSD1) Continued Prepared: 11/01/2010 12:24 Analyzed: 11/01/2010 14:07

Source: C013061-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.24 U	102	75-133	4	20	
Benzene	19		1.0	ug/L	20.0	0.20 U	97	81-134	2	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	100	83-117	1	16	
Toluene	21		1.0	ug/L	20.0	0.27 U	104	71-118	2	17	
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	99	75-115	1	18	
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*105*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*106*	*69-110*			

Batch 0K01023 - EPA 5030B_MS

Blank (0K01023-BLK1) Prepared: 11/01/2010 13:05 Analyzed: 11/01/2010 13:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,1-Dichloropropene	0.32	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.36	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,3-Dichlorobenzene	0.30	U	1.0	ug/L							
1,3-Dichloropropane	0.32	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2,2-Dichloropropane	0.55	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
3-Chloropropene	0.28	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acetonitrile	2.8	U	10	ug/L							
Acrolein	3.0	U	10	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K01023 - EPA 5030B_MS

Blank (0K01023-BLK1) Continued Prepared: 11/01/2010 13:05 Analyzed: 11/01/2010 13:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
Chloroprene	0.24	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Dichlorodifluoromethane	0.38	U	1.0	ug/L							
Ethyl Methacrylate	0.32	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Hexachlorobutadiene	0.35	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Isobutyl alcohol	14	U	50	ug/L							
Methacrylonitrile	2.8	U	10	ug/L							
Methyl Methacrylate	0.53	U	1.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Naphthalene	0.39	U	1.0	ug/L							
Propionitrile	4.8	U	10	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*105*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*99*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*69-110*			

LCS (0K01023-BS1) Prepared: 11/01/2010 13:05 Analyzed: 11/01/2010 13:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		104	75-133			
Benzene	19		1.0	ug/L	20.0		97	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		92	83-117			
Toluene	18		1.0	ug/L	20.0		88	71-118			
Trichloroethene	20		1.0	ug/L	20.0		101	75-115			
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*99*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*103*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K01023 - EPA 5030B_MS

Matrix Spike (0K01023-MS1) Prepared: 11/01/2010 13:05 Analyzed: 11/01/2010 14:21

Source: C013061-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	103	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	97	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	94	83-117			
Toluene	18		1.0	ug/L	20.0	0.27 U	90	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	104	75-115			
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*69-110*			

Matrix Spike Dup (0K01023-MSD1) Prepared: 11/01/2010 13:05 Analyzed: 11/01/2010 14:51

Source: C013061-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	96	75-133	7	20	
Benzene	19		1.0	ug/L	20.0	0.20 U	94	81-134	3	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	97	83-117	3	16	
Toluene	19		1.0	ug/L	20.0	0.27 U	93	71-118	3	17	
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	102	75-115	2	18	
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*108*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*101*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*103*	*69-110*			

Batch 0K01026 - EPA 5030B_MS

Blank (0K01026-BLK1) Prepared: 11/01/2010 13:15 Analyzed: 11/02/2010 01:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,1-Dichloropropene	0.32	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.36	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,3-Dichlorobenzene	0.30	U	1.0	ug/L							
1,3-Dichloropropane	0.32	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2,2-Dichloropropane	0.55	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K01026 - EPA 5030B_MS

Blank (0K01026-BLK1) Continued Prepared: 11/01/2010 13:15 Analyzed: 11/02/2010 01:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Hexanone	0.69	U	5.0	ug/L							
3-Chloropropene	0.28	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acetonitrile	2.8	U	10	ug/L							
Acrolein	3.0	U	10	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
Chloroprene	0.24	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Dichlorodifluoromethane	0.38	U	1.0	ug/L							
Ethyl Methacrylate	0.32	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Hexachlorobutadiene	0.35	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Isobutyl alcohol	14	U	50	ug/L							
Methacrylonitrile	2.8	U	10	ug/L							
Methyl Methacrylate	0.53	U	1.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Naphthalene	0.39	U	1.0	ug/L							
Propionitrile	4.8	U	10	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*107*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*104*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K01026 - EPA 5030B_MS

LCS (0K01026-BS1) Prepared: 11/01/2010 13:15 Analyzed: 11/02/2010 01:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		100	75-133			
Benzene	19		1.0	ug/L	20.0		94	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	19		1.0	ug/L	20.0		94	71-118			
Trichloroethene	20		1.0	ug/L	20.0		99	75-115			
Surrogate: 4-Bromofluorobenzene	*55*			*ug/L*	*50.0*		*110*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*101*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*103*	*69-110*			

Matrix Spike (0K01026-MS1) Prepared: 11/01/2010 13:15 Analyzed: 11/02/2010 02:03

Source: C013061-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	105	75-133			
Benzene	20		1.0	ug/L	20.0	0.20 U	99	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.27 U	92	83-117			
Toluene	18		1.0	ug/L	20.0	0.27 U	90	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	102	75-115			
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*102*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*103*	*69-110*			

Matrix Spike Dup (0K01026-MSD1) Prepared: 11/01/2010 13:15 Analyzed: 11/02/2010 02:32

Source: C013061-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	96	75-133	9	20	
Benzene	18		1.0	ug/L	20.0	0.20 U	90	81-134	9	17	
Chlorobenzene	17		1.0	ug/L	20.0	0.27 U	83	83-117	10	16	
Toluene	16		1.0	ug/L	20.0	0.27 U	82	71-118	10	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	96	75-115	6	18	
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*99*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*103*	*69-110*			

Batch 0K02030 - EPA 5030B_MS

Blank (0K02030-BLK1) Prepared: 11/02/2010 13:00 Analyzed: 11/02/2010 15:59

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

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K02030 - EPA 5030B_MS

Blank (0K02030-BLK1) Continued Prepared: 11/02/2010 13:00 Analyzed: 11/02/2010 15:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloropropene	0.32	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.36	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,3-Dichlorobenzene	0.30	U	1.0	ug/L							
1,3-Dichloropropane	0.32	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2,2-Dichloropropane	0.55	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
3-Chloropropene	0.28	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acetonitrile	2.8	U	10	ug/L							
Acrolein	3.0	U	10	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
Chloroprene	0.24	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Dichlorodifluoromethane	0.38	U	1.0	ug/L							
Ethyl Methacrylate	0.32	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Hexachlorobutadiene	0.35	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Isobutyl alcohol	14	U	50	ug/L							
Methacrylonitrile	2.8	U	10	ug/L							
Methyl Methacrylate	0.53	U	1.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Naphthalene	0.39	U	1.0	ug/L							
Propionitrile	4.8	U	10	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K02030 - EPA 5030B_MS

Blank (0K02030-BLK1) Continued Prepared: 11/02/2010 13:00 Analyzed: 11/02/2010 15:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*109*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*101*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*69-110*			

LCS (0K02030-BS1) Prepared: 11/02/2010 13:00 Analyzed: 11/02/2010 16:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		118	75-133			
Benzene	20		1.0	ug/L	20.0		98	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Toluene	19		1.0	ug/L	20.0		95	71-118			
Trichloroethene	23		1.0	ug/L	20.0		113	75-115			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*69-110*			

Matrix Spike (0K02030-MS1) Prepared: 11/02/2010 13:00 Analyzed: 11/02/2010 16:57

Source: C013031-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	110	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	97	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	96	83-117			
Toluene	18		1.0	ug/L	20.0	0.27 U	91	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	110	75-115			
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*102*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*103*	*69-110*			

Matrix Spike Dup (0K02030-MSD1) Prepared: 11/02/2010 13:00 Analyzed: 11/02/2010 17:27

Source: C013031-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	104	75-133	5	20	
Benzene	19		1.0	ug/L	20.0	0.20 U	96	81-134	0.8	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	94	83-117	2	16	
Toluene	18		1.0	ug/L	20.0	0.27 U	89	71-118	2	17	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K02030 - EPA 5030B_MS

Matrix Spike Dup (0K02030-MSD1) Continued Prepared: 11/02/2010 13:00 Analyzed: 11/02/2010 17:27

Source: C013031-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	109	75-115	2	18	
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*103*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*103*	*69-110*			

Batch 0K02032 - EPA 5030B_MS

Blank (0K02032-BLK1) Prepared: 11/02/2010 13:50 Analyzed: 11/03/2010 04:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,1-Dichloropropene	0.32	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.36	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,3-Dichlorobenzene	0.30	U	1.0	ug/L							
1,3-Dichloropropane	0.32	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2,2-Dichloropropane	0.55	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
3-Chloropropene	0.28	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acetonitrile	2.8	U	10	ug/L							
Acrolein	3.0	U	10	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K02032 - EPA 5030B_MS

Blank (0K02032-BLK1) Continued Prepared: 11/02/2010 13:50 Analyzed: 11/03/2010 04:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloroprene	0.24	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Dichlorodifluoromethane	0.38	U	1.0	ug/L							
Ethyl Methacrylate	0.32	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Hexachlorobutadiene	0.35	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Isobutyl alcohol	14	U	50	ug/L							
Methacrylonitrile	2.8	U	10	ug/L							
Methyl Methacrylate	0.53	U	1.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Naphthalene	0.39	U	1.0	ug/L							
Propionitrile	4.8	U	10	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*108*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*103*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*99*	*69-110*			

LCS (0K02032-BS1) Prepared: 11/02/2010 13:50 Analyzed: 11/03/2010 04:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		110	75-133			
Benzene	19		1.0	ug/L	20.0		95	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	18		1.0	ug/L	20.0		88	71-118			
Trichloroethene	21		1.0	ug/L	20.0		107	75-115			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*107*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*101*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*104*	*69-110*			

Matrix Spike (0K02032-MS1) Prepared: 11/02/2010 13:50 Analyzed: 11/03/2010 05:07

Source: C012553-05

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

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K02032 - EPA 5030B_MS

Matrix Spike (0K02032-MS1) Continued Prepared: 11/02/2010 13:50 Analyzed: 11/03/2010 05:07

Source: C012553-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.24 U	121	75-133			
Benzene	21		1.0	ug/L	20.0	0.20 U	104	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	102	83-117			
Toluene	19		1.0	ug/L	20.0	0.27 U	97	71-118			
Trichloroethene	23		1.0	ug/L	20.0	0.38 U	115	75-115			
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*104*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*103*	*69-110*			

Matrix Spike Dup (0K02032-MSD1) Prepared: 11/02/2010 13:50 Analyzed: 11/03/2010 05:36

Source: C012553-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	110	75-133	9	20	
Benzene	19		1.0	ug/L	20.0	0.20 U	97	81-134	7	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	96	83-117	6	16	
Toluene	18		1.0	ug/L	20.0	0.27 U	92	71-118	5	17	
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	111	75-115	3	18	
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*103*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*99*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*105*	*69-110*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0J28014 - EPA 245.1

Blank (0J28014-BLK1) Prepared: 10/28/2010 08:37 Analyzed: 10/28/2010 13:22

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

LCS (0J28014-BS1) Prepared: 10/28/2010 08:37 Analyzed: 10/28/2010 13:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.02		0.200	ug/L	5.00		100	85-115			

Matrix Spike (0J28014-MS1) Prepared: 10/28/2010 08:37 Analyzed: 10/28/2010 13:31

Source: C010798-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.22		0.200	ug/L	5.00	0.170 U	104	85-115			

Matrix Spike Dup (0J28014-MSD1) Prepared: 10/28/2010 08:37 Analyzed: 10/28/2010 13:34

Source: C010798-04

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

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0J28014 - EPA 245.1

Matrix Spike Dup (0J28014-MSD1) Continued Prepared: 10/28/2010 08:37 Analyzed: 10/28/2010 13:34

Source: C010798-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.21		0.200	ug/L	5.00	0.170 U	104	85-115	0.2	15	

Post Spike (0J28014-PS1) Prepared: 10/28/2010 08:37 Analyzed: 10/28/2010 13:37

Source: C010798-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.40		0.200	ug/L	5.00	0.00530	88	75-125			

Batch 0J28015 - EPA 245.1

Blank (0J28015-BLK1) Prepared: 10/28/2010 08:39 Analyzed: 10/28/2010 14:51

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

LCS (0J28015-BS1) Prepared: 10/28/2010 08:39 Analyzed: 10/28/2010 14:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.06		0.200	ug/L	5.00		101	85-115			

Matrix Spike (0J28015-MS1) Prepared: 10/28/2010 08:39 Analyzed: 10/28/2010 16:50

Source: C010793-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	11.4	D	0.400	ug/L	5.00	5.62	115	85-115			

Matrix Spike Dup (0J28015-MSD1) Prepared: 10/28/2010 08:39 Analyzed: 10/28/2010 16:53

Source: C010793-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	11.4	D	0.400	ug/L	5.00	5.62	115	85-115	0.02	15	

Post Spike (0J28015-PS1) Prepared: 10/28/2010 08:39 Analyzed: 10/28/2010 15:11

Source: C010793-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	9.50		0.200	ug/L	5.00	5.62	78	75-125			

Batch 0J29006 - EPA 245.1

Blank (0J29006-BLK1) Prepared: 10/29/2010 08:57 Analyzed: 10/29/2010 15:15

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

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0J29006 - EPA 245.1

LCS (0J29006-BS1) Prepared: 10/29/2010 08:57 Analyzed: 10/29/2010 15:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.72		0.200	ug/L	5.00		94	85-115			

Matrix Spike (0J29006-MS1) Prepared: 10/29/2010 08:57 Analyzed: 10/29/2010 15:24

Source: C013007-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.12		0.200	ug/L	5.00	0.170 U	102	85-115			

Matrix Spike Dup (0J29006-MSD1) Prepared: 10/29/2010 08:57 Analyzed: 10/29/2010 15:27

Source: C013007-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.34		0.200	ug/L	5.00	0.170 U	107	85-115	4	15	

Post Spike (0J29006-PS1) Prepared: 10/29/2010 08:57 Analyzed: 10/29/2010 15:30

Source: C013007-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.79		0.200	ug/L	5.00	0.170 U	96	75-125			

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

Batch 0J27006 - EPA 3005A

Blank (0J27006-BLK1) Prepared: 10/27/2010 09:03 Analyzed: 10/29/2010 13:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0J27006-BS1) Prepared: 10/27/2010 09:03 Analyzed: 10/29/2010 13:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	545		10.0	ug/L	500		109	80-120			
Barium	531		10.0	ug/L	500		106	80-120			
Beryllium	273		1.00	ug/L	250		109	80-120			
Cadmium	269		1.00	ug/L	250		108	80-120			

QUALITY CONTROL

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

Batch 0J27006 - EPA 3005A

LCS (0J27006-BS1) Continued Prepared: 10/27/2010 09:03 Analyzed: 10/29/2010 13:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	529		10.0	ug/L	500		106	80-120			
Cobalt	542		10.0	ug/L	500		108	80-120			
Copper	269		10.0	ug/L	250		107	80-120			
Lead	542		10.0	ug/L	500		108	80-120			
Nickel	536		10.0	ug/L	500		107	80-120			
Silver	263		10.0	ug/L	250		105	80-120			
Vanadium	257		10.0	ug/L	250		103	80-120			
Zinc	537		10.0	ug/L	500		107	80-120			

Matrix Spike (0J27006-MS1) Prepared: 10/27/2010 09:03 Analyzed: 10/29/2010 13:34

Source: C010798-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	546		10.0	ug/L	500	2.80 U	109	75-125			
Barium	553		10.0	ug/L	500	23.2	106	75-125			
Beryllium	275		1.00	ug/L	250	0.100 U	110	75-125			
Cadmium	270		1.00	ug/L	250	0.360 U	108	75-125			
Chromium	531		10.0	ug/L	500	1.00 U	106	75-125			
Cobalt	548		10.0	ug/L	500	1.31	109	75-125			
Copper	270		10.0	ug/L	250	1.99	107	75-125			
Lead	545		10.0	ug/L	500	1.90 U	109	75-125			
Nickel	543		10.0	ug/L	500	2.89	108	75-125			
Silver	264		10.0	ug/L	250	1.90 U	106	75-125			
Vanadium	259		10.0	ug/L	250	1.40 U	104	75-125			
Zinc	541		10.0	ug/L	500	3.80 U	108	75-125			

Matrix Spike Dup (0J27006-MSD1) Prepared: 10/27/2010 09:03 Analyzed: 10/29/2010 13:45

Source: C010798-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	553		10.0	ug/L	500	2.80 U	111	75-125	1	20	
Barium	552		10.0	ug/L	500	23.2	106	75-125	0.2	20	
Beryllium	276		1.00	ug/L	250	0.100 U	110	75-125	0.3	20	
Cadmium	270		1.00	ug/L	250	0.360 U	108	75-125	0.2	20	
Chromium	540		10.0	ug/L	500	1.00 U	108	75-125	2	20	
Cobalt	532		10.0	ug/L	500	1.31	106	75-125	3	20	
Copper	276		10.0	ug/L	250	1.99	110	75-125	2	20	
Lead	549		10.0	ug/L	500	1.90 U	110	75-125	0.6	20	
Nickel	539		10.0	ug/L	500	2.89	107	75-125	0.7	20	
Silver	274		10.0	ug/L	250	1.90 U	110	75-125	4	20	
Vanadium	264		10.0	ug/L	250	1.40 U	106	75-125	2	20	
Zinc	537		10.0	ug/L	500	3.80 U	107	75-125	0.7	20	

Post Spike (0J27006-PS1) Prepared: 10/27/2010 09:03 Analyzed: 10/29/2010 13:47

Source: C010798-04

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

QUALITY CONTROL

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

Batch 0J27006 - EPA 3005A

Post Spike (0J27006-PS1) Continued Prepared: 10/27/2010 09:03 Analyzed: 10/29/2010 13:47

Source: C010798-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.16		0.0100	mg/L	1.00	-0.000560	116	80-120			
Barium	1.17		0.0100	mg/L	1.00	0.0232	115	80-120			
Beryllium	0.579		0.00100	mg/L	0.500	3.30E-5	116	80-120			
Cadmium	0.574		0.00100	mg/L	0.500	-4.22E-5	115	80-120			
Chromium	1.15		0.0100	mg/L	1.00	0.000749	115	80-120			
Cobalt	1.13		0.0100	mg/L	1.00	0.00131	113	80-120			
Copper	0.591		0.0100	mg/L	0.500	0.00199	118	80-120			
Lead	1.15		0.0100	mg/L	1.00	-0.000942	115	80-120			
Nickel	1.14		0.0100	mg/L	1.00	0.00289	114	80-120			
Silver	0.562		0.0100	mg/L	0.500	0.000242	112	80-120			
Vanadium	0.565		0.0100	mg/L	0.500	0.000356	113	80-120			
Zinc	1.14		0.0100	mg/L	1.00	0.00263	114	80-120			

Batch 0J27007 - EPA 3005A

Blank (0J27007-BLK1) Prepared: 10/27/2010 09:11 Analyzed: 11/01/2010 12:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0J27007-BS1) Prepared: 10/27/2010 09:11 Analyzed: 11/01/2010 12:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	548		10.0	ug/L	500		110	80-120			
Barium	539		10.0	ug/L	500		108	80-120			
Beryllium	280		1.00	ug/L	250		112	80-120			
Cadmium	275		1.00	ug/L	250		110	80-120			
Chromium	547		10.0	ug/L	500		109	80-120			
Cobalt	536		10.0	ug/L	500		107	80-120			
Copper	276		10.0	ug/L	250		110	80-120			
Lead	547		10.0	ug/L	500		109	80-120			
Nickel	543		10.0	ug/L	500		109	80-120			
Silver	276		10.0	ug/L	250		110	80-120			
Vanadium	267		10.0	ug/L	250		107	80-120			
Zinc	551		10.0	ug/L	500		110	80-120			

QUALITY CONTROL

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

Batch 0J27007 - EPA 3005A

Matrix Spike (0J27007-MS1) Prepared: 10/27/2010 09:11 Analyzed: 11/01/2010 12:58

Source: C012688-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	548		10.0	ug/L	500	2.80 U	110	75-125			
Barium	548		10.0	ug/L	500	14.8	107	75-125			
Beryllium	278		1.00	ug/L	250	0.111	111	75-125			
Cadmium	266		1.00	ug/L	250	0.360 U	107	75-125			
Chromium	536		10.0	ug/L	500	6.56	106	75-125			
Cobalt	547		10.0	ug/L	500	1.10 U	109	75-125			
Copper	267		10.0	ug/L	250	1.60 U	107	75-125			
Lead	551		10.0	ug/L	500	1.90 U	110	75-125			
Nickel	527		10.0	ug/L	500	1.80 U	105	75-125			
Silver	261		10.0	ug/L	250	1.90 U	104	75-125			
Vanadium	266		10.0	ug/L	250	7.10	104	75-125			
Zinc	548		10.0	ug/L	500	10.6	108	75-125			

Matrix Spike Dup (0J27007-MSD1) Prepared: 10/27/2010 09:11 Analyzed: 11/01/2010 13:00

Source: C012688-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	559		10.0	ug/L	500	2.80 U	112	75-125	2	20	
Barium	566		10.0	ug/L	500	14.8	110	75-125	3	20	
Beryllium	288		1.00	ug/L	250	0.111	115	75-125	4	20	
Cadmium	276		1.00	ug/L	250	0.360 U	110	75-125	4	20	
Chromium	558		10.0	ug/L	500	6.56	110	75-125	4	20	
Cobalt	557		10.0	ug/L	500	1.10 U	111	75-125	2	20	
Copper	278		10.0	ug/L	250	1.60 U	111	75-125	4	20	
Lead	560		10.0	ug/L	500	1.90 U	112	75-125	2	20	
Nickel	546		10.0	ug/L	500	1.80 U	109	75-125	4	20	
Silver	269		10.0	ug/L	250	1.90 U	107	75-125	3	20	
Vanadium	277		10.0	ug/L	250	7.10	108	75-125	4	20	
Zinc	568		10.0	ug/L	500	10.6	111	75-125	3	20	

Post Spike (0J27007-PS1) Prepared: 10/27/2010 09:11 Analyzed: 11/01/2010 13:03

Source: C012688-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.13		0.0100	mg/L	1.00	6.53E-5	113	80-120			
Barium	1.16		0.0100	mg/L	1.00	0.0148	114	80-120			
Beryllium	0.584		0.00100	mg/L	0.500	0.000111	117	80-120			
Cadmium	0.571		0.00100	mg/L	0.500	3.06E-5	114	80-120			
Chromium	1.15		0.0100	mg/L	1.00	0.00656	115	80-120			
Cobalt	1.12		0.0100	mg/L	1.00	-0.000126	112	80-120			
Copper	0.586		0.0100	mg/L	0.500	0.00106	117	80-120			
Lead	1.13		0.0100	mg/L	1.00	-7.25E-5	113	80-120			
Nickel	1.12		0.0100	mg/L	1.00	-9.50E-5	112	80-120			
Silver	0.554		0.0100	mg/L	0.500	-0.000961	111	80-120			
Vanadium	0.571		0.0100	mg/L	0.500	0.00710	113	80-120			
Zinc	1.16		0.0100	mg/L	1.00	0.0106	114	80-120			

QUALITY CONTROL

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

Batch 0J27007 - EPA 3005A

Batch 0J27008 - EPA 3005A

Blank (0J27008-BLK1) Prepared: 10/27/2010 09:18 Analyzed: 11/03/2010 09:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	**0.425**	**J**	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (0J27008-BS1) Prepared: 10/27/2010 09:18 Analyzed: 11/03/2010 09:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.1	B	2.00	ug/L	25.0		109	80-120			
Selenium	26.2		1.00	ug/L	25.0		105	80-120			
Thallium	27.1		1.00	ug/L	25.0		108	80-120			

Matrix Spike (0J27008-MS1) Prepared: 10/27/2010 09:18 Analyzed: 11/03/2010 09:33

Source: C012688-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.1	B	2.00	ug/L	25.0	1.33	103	75-125			
Selenium	27.6		1.00	ug/L	25.0	0.830 U	110	75-125			
Thallium	27.1		1.00	ug/L	25.0	0.110 U	108	75-125			

Matrix Spike Dup (0J27008-MSD1) Prepared: 10/27/2010 09:18 Analyzed: 11/03/2010 09:37

Source: C012688-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.2	B	2.00	ug/L	25.0	1.33	104	75-125	0.4	20	
Selenium	27.8		1.00	ug/L	25.0	0.830 U	111	75-125	0.6	20	
Thallium	27.1		1.00	ug/L	25.0	0.110 U	108	75-125	0.02	20	

Post Spike (0J27008-PS1) Prepared: 10/27/2010 09:18 Analyzed: 11/03/2010 09:40

Source: C012688-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	30.4	B	2.00	ug/L	25.0	1.33	116	80-120			
Selenium	29.1		1.00	ug/L	25.0	-0.738	119	80-120			
Thallium	28.6		1.00	ug/L	25.0	-0.209	115	80-120			

Batch 0J27029 - EPA 3005A

Blank (0J27029-BLK1) Prepared: 10/27/2010 14:59 Analyzed: 11/01/2010 14:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							

QUALITY CONTROL

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

Batch 0J27029 - EPA 3005A

Blank (0J27029-BLK1) Continued Prepared: 10/27/2010 14:59 Analyzed: 11/01/2010 14:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0J27029-BS1) Prepared: 10/27/2010 14:59 Analyzed: 11/01/2010 14:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	560		10.0	ug/L	500		112	80-120			
Barium	548		10.0	ug/L	500		110	80-120			
Beryllium	285		1.00	ug/L	250		114	80-120			
Cadmium	276		1.00	ug/L	250		111	80-120			
Chromium	548		10.0	ug/L	500		110	80-120			
Cobalt	558		10.0	ug/L	500		112	80-120			
Copper	276		10.0	ug/L	250		110	80-120			
Lead	562		10.0	ug/L	500		112	80-120			
Nickel	552		10.0	ug/L	500		110	80-120			
Silver	270		10.0	ug/L	250		108	80-120			
Vanadium	267		10.0	ug/L	250		107	80-120			
Zinc	556		10.0	ug/L	500		111	80-120			

Matrix Spike (0J27029-MS1) Prepared: 10/27/2010 14:59 Analyzed: 11/01/2010 14:41

Source: C013007-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	562		10.0	ug/L	500	2.80 U	112	75-125			
Barium	626		10.0	ug/L	500	79.9	109	75-125			
Beryllium	286		1.00	ug/L	250	0.100 U	115	75-125			
Cadmium	273		1.00	ug/L	250	0.360 U	109	75-125			
Chromium	606		10.0	ug/L	500	69.2	107	75-125			
Cobalt	556		10.0	ug/L	500	2.30	111	75-125			
Copper	297		10.0	ug/L	250	20.3	111	75-125			
Lead	558		10.0	ug/L	500	2.50	111	75-125			
Nickel	567		10.0	ug/L	500	32.6	107	75-125			
Silver	270		10.0	ug/L	250	1.90 U	108	75-125			
Vanadium	289		10.0	ug/L	250	20.7	107	75-125			
Zinc	558		10.0	ug/L	500	12.3	109	75-125			

Matrix Spike Dup (0J27029-MSD1) Prepared: 10/27/2010 14:59 Analyzed: 11/01/2010 14:52

Source: C013007-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	562		10.0	ug/L	500	2.80 U	112	75-125	0.03	20	
Barium	628		10.0	ug/L	500	79.9	110	75-125	0.3	20	

QUALITY CONTROL

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

Batch 0J27029 - EPA 3005A

Matrix Spike Dup (0J27029-MSD1) Continued Prepared: 10/27/2010 14:59 Analyzed: 11/01/2010 14:52

Source: C013007-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Beryllium	287		1.00	ug/L	250	0.100 U	115	75-125	0.2	20	
Cadmium	274		1.00	ug/L	250	0.360 U	110	75-125	0.4	20	
Chromium	608		10.0	ug/L	500	69.2	108	75-125	0.3	20	
Cobalt	553		10.0	ug/L	500	2.30	110	75-125	0.6	20	
Copper	298		10.0	ug/L	250	20.3	111	75-125	0.5	20	
Lead	556		10.0	ug/L	500	2.50	111	75-125	0.4	20	
Nickel	571		10.0	ug/L	500	32.6	108	75-125	0.7	20	
Silver	270		10.0	ug/L	250	1.90 U	108	75-125	0.3	20	
Vanadium	290		10.0	ug/L	250	20.7	108	75-125	0.4	20	
Zinc	561		10.0	ug/L	500	12.3	110	75-125	0.5	20	

Post Spike (0J27029-PS1) Prepared: 10/27/2010 14:59 Analyzed: 11/01/2010 14:55

Source: C013007-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.13		0.0100	mg/L	1.00	-0.000988	113	80-120			
Barium	1.20		0.0100	mg/L	1.00	0.0799	112	80-120			
Beryllium	0.583		0.00100	mg/L	0.500	-0.000821	117	80-120			
Cadmium	0.560		0.00100	mg/L	0.500	-2.01E-5	112	80-120			
Chromium	1.19		0.0100	mg/L	1.00	0.0692	112	80-120			
Cobalt	1.09		0.0100	mg/L	1.00	0.00230	109	80-120			
Copper	0.599		0.0100	mg/L	0.500	0.0203	116	80-120			
Lead	1.11		0.0100	mg/L	1.00	0.00250	111	80-120			
Nickel	1.13		0.0100	mg/L	1.00	0.0326	109	80-120			
Silver	0.548		0.0100	mg/L	0.500	-0.000403	110	80-120			
Vanadium	0.576		0.0100	mg/L	0.500	0.0207	111	80-120			
Zinc	1.12		0.0100	mg/L	1.00	0.0123	111	80-120			

Batch 0J28027 - EPA 3005A

Blank (0J28027-BLK1) Prepared: 10/28/2010 12:26 Analyzed: 11/03/2010 11:04

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

LCS (0J28027-BS1) Prepared: 10/28/2010 12:26 Analyzed: 11/03/2010 11:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.1		2.00	ug/L	25.0		104	80-120			
Selenium	25.5		1.00	ug/L	25.0		102	80-120			
Thallium	25.9		1.00	ug/L	25.0		104	80-120			

Matrix Spike (0J28027-MS1) Prepared: 10/28/2010 12:26 Analyzed: 11/03/2010 11:15

Source: C013007-07

QUALITY CONTROL

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

Batch 0J28027 - EPA 3005A

Matrix Spike (0J28027-MS1) Continued Prepared: 10/28/2010 12:26 Analyzed: 11/03/2010 11:15

Source: C013007-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.8		2.00	ug/L	25.0	1.08	103	75-125			
Selenium	25.7		1.00	ug/L	25.0	0.830 U	103	75-125			
Thallium	25.8		1.00	ug/L	25.0	0.110 U	103	75-125			

Matrix Spike Dup (0J28027-MSD1) Prepared: 10/28/2010 12:26 Analyzed: 11/03/2010 11:18

Source: C013007-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.1		2.00	ug/L	25.0	1.08	104	75-125	1	20	
Selenium	26.3		1.00	ug/L	25.0	0.830 U	105	75-125	2	20	
Thallium	26.2		1.00	ug/L	25.0	0.110 U	105	75-125	1	20	

Post Spike (0J28027-PS1) Prepared: 10/28/2010 12:26 Analyzed: 11/03/2010 11:22

Source: C013007-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	30.1		2.00	ug/L	25.0	1.08	116	80-120			
Selenium	30.0		1.00	ug/L	25.0	-0.234	121	80-120			QM-08
Thallium	28.8		1.00	ug/L	25.0	-0.393	117	80-120			

Classical Chemistry Parameters - Quality Control

Batch 0J27003 - NO PREP

Blank (0J27003-BLK1) Prepared: 10/27/2010 06:26 Analyzed: 10/27/2010 07:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	**8.1**	**J**	100	ug/L							

LCS (0J27003-BS1) Prepared: 10/27/2010 06:26 Analyzed: 10/27/2010 07:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0	B	0.10	mg/L	1.00		105	90-110			

Matrix Spike (0J27003-MS1) Prepared: 10/27/2010 06:26 Analyzed: 10/27/2010 07:29

Source: C011866-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.1	B	0.10	mg/L	1.00	0.12	93	90-110			

Matrix Spike Dup (0J27003-MSD1) Prepared: 10/27/2010 06:26 Analyzed: 10/27/2010 07:30

Source: C011866-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.1	B	0.10	mg/L	1.00	0.12	98	90-110	5	10	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0J27012 - NO PREP

Blank (0J27012-BLK1) Prepared & Analyzed: 10/27/2010 13:13

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

LCS (0J27012-BS1) Prepared & Analyzed: 10/27/2010 13:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	180		2.0	mg/L	198		91	85-115			

Duplicate (0J27012-DUP1) Prepared & Analyzed: 10/27/2010 13:13

Source: C012584-01

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

Batch 0J28002 - NO PREP

Blank (0J28002-BLK1) Prepared: 10/28/2010 06:39 Analyzed: 10/28/2010 09:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	8000	U	15000	ug/L							

LCS (0J28002-BS1) Prepared: 10/28/2010 06:39 Analyzed: 10/28/2010 09:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	99		15	mg/L	100		99	80-120			

Matrix Spike (0J28002-MS1) Prepared: 10/28/2010 06:39 Analyzed: 10/28/2010 09:55

Source: C010800-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	62		15	mg/L	54.1	7.7	101	80-120			

Matrix Spike Dup (0J28002-MSD1) Prepared: 10/28/2010 06:39 Analyzed: 10/28/2010 09:56

Source: C010800-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	56		15	mg/L	54.1	7.7	89	80-120	11	25	

Batch 0J28013 - Same

Blank (0J28013-BLK1) Prepared: 10/28/2010 11:13 Analyzed: 10/28/2010 14:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	2800	U	10000	ug/L							

LCS (0J28013-BS1) Prepared: 10/28/2010 11:13 Analyzed: 10/28/2010 14:36

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0J28013 - Same

LCS (0J28013-BS1) Continued Prepared: 10/28/2010 11:13 Analyzed: 10/28/2010 14:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	500000		10000	ug/L	500000		100	90-110			

Matrix Spike (0J28013-MS1) Prepared: 10/28/2010 11:13 Analyzed: 10/28/2010 14:36

Source: C012650-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	520000		10000	ug/L	500000	2800 U	104	90-110			

Matrix Spike Dup (0J28013-MSD1) Prepared: 10/28/2010 11:13 Analyzed: 10/28/2010 14:36

Source: C012650-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	510000		10000	ug/L	500000	2800 U	101	90-110	3	10	

Batch 0K01006 - NO PREP

Blank (0K01006-BLK1) Prepared: 11/01/2010 07:34 Analyzed: 11/01/2010 21:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	18	U	5000	ug/L							
Sulfate as SO4	120	U	5000	ug/L							

LCS (0K01006-BS1) Prepared: 11/01/2010 07:34 Analyzed: 11/01/2010 21:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	51		5.0	mg/L	50.0		103	90-110			
Sulfate as SO4	47		5.0	mg/L	50.0		94	90-110			

Matrix Spike (0K01006-MS1) Prepared: 11/01/2010 07:34 Analyzed: 11/01/2010 22:05

Source: C010065-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	20		5.0	mg/L	20.0	1.8	89	90-110			QM-05
Sulfate as SO4	18		5.0	mg/L	20.0	0.12 U	91	90-110			

Matrix Spike Dup (0K01006-MSD1) Prepared: 11/01/2010 07:34 Analyzed: 11/01/2010 22:24

Source: C010065-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	20		5.0	mg/L	20.0	1.8	91	90-110	2	10	
Sulfate as SO4	19		5.0	mg/L	20.0	0.12 U	93	90-110	2	10	

Batch 0K01012 - NO PREP

Blank (0K01012-BLK1) Prepared: 11/01/2010 10:45 Analyzed: 11/01/2010 11:10

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0K01012 - NO PREP

Blank (0K01012-BLK1) Continued Prepared: 11/01/2010 10:45 Analyzed: 11/01/2010 11:10

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

LCS (0K01012-BS1) Prepared: 11/01/2010 10:45 Analyzed: 11/01/2010 11:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.38		0.10	mg/L	0.401		95	80-120			

Matrix Spike (0K01012-MS1) Prepared: 11/01/2010 10:45 Analyzed: 11/01/2010 11:10

Source: C012688-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	54	J	100	ug/L	401	10 U	13	80-120			QM-05

Matrix Spike Dup (0K01012-MSD1) Prepared: 11/01/2010 10:45 Analyzed: 11/01/2010 11:10

Source: C012688-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	55	J	100	ug/L	401	10 U	14	80-120	2	25	QM-05

Batch 0K02001 - NO PREP

Blank (0K02001-BLK1) Prepared: 11/02/2010 06:26 Analyzed: 11/02/2010 07:48

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

LCS (0K02001-BS1) Prepared: 11/02/2010 06:26 Analyzed: 11/02/2010 07:50

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

Matrix Spike (0K02001-MS1) Prepared: 11/02/2010 06:26 Analyzed: 11/02/2010 07:54

Source: C010065-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.066		0.10	mg/L	0.513	0.025 U	13	90-110			QM-05, QM-11

Matrix Spike Dup (0K02001-MSD1) Prepared: 11/02/2010 06:26 Analyzed: 11/02/2010 07:56

Source: C010065-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.017		0.10	mg/L	0.513	0.025 U	3	90-110	119	10	QM-05, QM-11

Batch 0K04017 - Same

Blank (0K04017-BLK1) Prepared: 11/04/2010 12:28 Analyzed: 11/04/2010 16:40

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0K04017 - Same

Blank (0K04017-BLK1) Continued Prepared: 11/04/2010 12:28 Analyzed: 11/04/2010 16:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	2800	U	10000	ug/L							

LCS (0K04017-BS1) Prepared: 11/04/2010 12:28 Analyzed: 11/04/2010 16:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	520		10	mg/L	500		104	90-110			

Matrix Spike (0K04017-MS1) Prepared: 11/04/2010 12:28 Analyzed: 11/04/2010 16:40

Source: C012167-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	850		10	mg/L	500	320	106	90-110			

Matrix Spike Dup (0K04017-MSD1) Prepared: 11/04/2010 12:28 Analyzed: 11/04/2010 16:40

Source: C012167-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	830		10	mg/L	500	320	102	90-110	3	10	

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 0J27011 - NO PREP ANALYTIX

Blank (0J27011-BLK1) Prepared: 10/27/2010 11:34 Analyzed: 10/27/2010 12:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	2000	U	2500	ug/L							
Ethane	1.50	U	2.00	ug/L							
Ethene	1.60	U	2.00	ug/L							
Methane	0.490	U	1.00	ug/L							

LCS (0J27011-BS1) Prepared: 10/27/2010 11:34 Analyzed: 10/27/2010 12:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	22500		2500	ug/L	26200		86	71-119			
Ethane	140		2.00	ug/L	180		78	75-123			
Ethene	133		2.00	ug/L	168		79	72-131			
Methane	72.6		1.00	ug/L	96.9		75	74-116			

Matrix Spike (0J27011-MS1) Prepared: 10/27/2010 11:34 Analyzed: 10/27/2010 12:24

Source: C012688-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	249000	E	2500	ug/L	26200	206000	166	71-119			QM-02
Ethane	190		2.00	ug/L	180	1.50 U	106	75-123			
Ethene	175		2.00	ug/L	168	1.60 U	104	72-131			

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 0J27011 - NO PREP ANALYTIX

Matrix Spike (0J27011-MS1) Continued Prepared: 10/27/2010 11:34 Analyzed: 10/27/2010 12:24

Source: C012688-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	105		1.00	ug/L	96.9	9.72	98	74-116			

Matrix Spike Dup (0J27011-MSD1) Prepared: 10/27/2010 11:34 Analyzed: 10/27/2010 12:32

Source: C012688-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	272000	E	2500	ug/L	26200	206000	251	71-119	9	10	QM-02
Ethane	191		2.00	ug/L	180	1.50 U	106	75-123	0.6	14	
Ethene	182		2.00	ug/L	168	1.60 U	108	72-131	4	12	
Methane	106		1.00	ug/L	96.9	9.72	99	74-116	0.8	18	

Volatile Fatty Acids by HPLC - Quality Control

Batch 0J27012 - NO PREP ANALYTIX

Blank (0J27012-BLK1) Prepared: 10/27/2010 11:37 Analyzed: 10/29/2010 00:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	83	U	500	ug/L							
Butyric Acid	160	U	500	ug/L							
Hexanoic Acid	230	U	1000	ug/L							
HIBA (2-Hydroxyisobutyric Acid)	160	U	500	ug/L							
iso-Hexanoic Acid	210	U	1000	ug/L							
iso-Pentanoic Acid	260	U	500	ug/L							
Lactic Acid	440	U	500	ug/L							
Pentanoic Acid	270	U	500	ug/L							
Propionic Acid	180	U	500	ug/L							
Pyruvic Acid	140	U	500	ug/L							
Surrogate: Trimethylacetic acid	*55000*			*ug/L*	*50000*		*109*	*80-124*			

LCS (0J27012-BS1) Prepared: 10/27/2010 11:37 Analyzed: 10/29/2010 01:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	19000		500	ug/L	20000		96	73-125			
Butyric Acid	20000		500	ug/L	20000		100	80-120			
Hexanoic Acid	22000		1000	ug/L	20000		109	78-120			
HIBA (2-Hydroxyisobutyric Acid)	20000		500	ug/L	20000		98	80-120			
iso-Hexanoic Acid	20000		1000	ug/L	20000		102	80-120			
iso-Pentanoic Acid	24000		500	ug/L	20000		118	78-120			
Lactic Acid	20000		500	ug/L	20000		101	56-154			
Pentanoic Acid	21000		500	ug/L	20000		107	77-120			
Propionic Acid	21000		500	ug/L	20000		103	80-120			
Pyruvic Acid	17000		500	ug/L	20000		85	37-142			
Surrogate: Trimethylacetic acid	*48000*			*ug/L*	*50000*		*96*	*80-124*			

Matrix Spike (0J27012-MS1) Prepared: 10/27/2010 11:37 Analyzed: 10/29/2010 02:17

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 0J27012 - NO PREP ANALYTIX

Matrix Spike (0J27012-MS1) Continued Prepared: 10/27/2010 11:37 Analyzed: 10/29/2010 02:17

Source: C012688-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	15000		500	ug/L	20000	83 U	74	73-125			
Butyric Acid	18000		500	ug/L	20000	160 U	91	80-120			
Hexanoic Acid	18000		1000	ug/L	20000	230 U	88	78-120			
HIBA (2-Hydroxyisobutyric Acid)	20000		500	ug/L	20000	160 U	102	80-120			
iso-Hexanoic Acid	22000		1000	ug/L	20000	210 U	110	80-120			
iso-Pentanoic Acid	23000		500	ug/L	20000	260 U	113	78-120			
Lactic Acid	14000		500	ug/L	20000	440 U	70	56-154			
Pentanoic Acid	19000		500	ug/L	20000	270 U	97	77-120			
Propionic Acid	16000		500	ug/L	20000	180 U	82	80-120			
Pyruvic Acid	16000		500	ug/L	20000	140 U	81	37-142			
Surrogate: Trimethylacetic acid	*46000*			*ug/L*	*50000*		*92*	*80-124*			

Matrix Spike Dup (0J27012-MSD1) Prepared: 10/27/2010 11:37 Analyzed: 10/29/2010 03:20

Source: C012688-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	16000		500	ug/L	20000	83 U	80	73-125	7	10	
Butyric Acid	18000		500	ug/L	20000	160 U	91	80-120	0.2	10	
Hexanoic Acid	18000		1000	ug/L	20000	230 U	88	78-120	0.6	34	
HIBA (2-Hydroxyisobutyric Acid)	19000		500	ug/L	20000	160 U	97	80-120	5	15	
iso-Hexanoic Acid	21000		1000	ug/L	20000	210 U	107	80-120	3	15	
iso-Pentanoic Acid	24000		500	ug/L	20000	260 U	120	78-120	6	15	
Lactic Acid	12000		500	ug/L	20000	440 U	60	56-154	15	19	
Pentanoic Acid	21000		500	ug/L	20000	270 U	104	77-120	7	10	
Propionic Acid	16000		500	ug/L	20000	180 U	82	80-120	0.04	10	
Pyruvic Acid	16000		500	ug/L	20000	140 U	80	37-142	0.9	10	
Surrogate: Trimethylacetic acid	*48000*			*ug/L*	*50000*		*96*	*80-124*			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0J28022 - NO PREP

Blank (0J28022-BLK1) Prepared: 10/28/2010 14:09 Analyzed: 10/28/2010 14:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron, Ferrous	37	U	50	ug/L							

LCS (0J28022-BS1) Prepared: 10/28/2010 14:09 Analyzed: 10/28/2010 14:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron, Ferrous	1500		50	ug/L	1500		102	88-114			

Matrix Spike (0J28022-MS1) Prepared: 10/28/2010 14:09 Analyzed: 10/28/2010 14:27

Source: C012688-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0J28022 - NO PREP

Matrix Spike (0J28022-MS1) Continued Prepared: 10/28/2010 14:09 Analyzed: 10/28/2010 14:27

Source: C012688-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron, Ferrous	1600		50	ug/L	1500	97	100	88-114			

Matrix Spike Dup (0J28022-MSD1) Prepared: 10/28/2010 14:09 Analyzed: 10/28/2010 14:27

Source: C012688-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron, Ferrous	1500		50	ug/L	1500	97	97	88-114	3	11	

Batch 0K04010 - NO PREP

Blank (0K04010-BLK1) Prepared: 11/04/2010 16:18 Analyzed: 11/04/2010 19:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	320	U	1000	ug/L							

LCS (0K04010-BS1) Prepared: 11/04/2010 16:18 Analyzed: 11/04/2010 19:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	41000		1000	ug/L	41600		98	85-115			

Matrix Spike (0K04010-MS1) Prepared: 11/04/2010 16:18 Analyzed: 11/04/2010 19:18

Source: C012688-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	43000		1000	ug/L	40000	1300	105	85-115			

Matrix Spike Dup (0K04010-MSD1) Prepared: 11/04/2010 16:18 Analyzed: 11/04/2010 19:18

Source: C012688-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	44000		1000	ug/L	40000	1300	106	85-115	1	21	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
Q	Analysis performed outside of method - specified holding time.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

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

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Page 1 of 6

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning, CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Site Location / Time Zone

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C012688

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	Sample Comments
	9209-MW5R	10/26/10	1515	G	GW	19	X	X	X	X	X	X	X	X	X	X	- report results according
	9209-MW6	10/26/10	820	G	GW	19	X	X	X	X	X	X	X	X	X	X	to SWS guidelines
	9209-MW6d				GW	4	X	X						X			- report "J" values
	9209-MW7				GW	4	X	X						X			- provide edd
	9209-MW8	10/25/10	1620	G	GW	19	X	X	X	X	X	X	X	X	X	X	
	9209-MW8d				GW	4	X	X						X			
	9209-MW9	10/26/10	945	G	GW	19	X	X	X	X	X	X	X	X		X	
	9209-MW10	10/25/10	1410	G	GW	19	X	X	X	X	X	X	X	X		X	
	9209-MW10d				GW	4	X	X						X			
	9209-MW11	10/26/10	1015	G	GW	19	X	X	X	X	X	X	X	X		X	
	9209-MW11d				GW	4	X	X						X			
	9209-MW22	10/26/10	720	G	GW	4	X	X						X			
						<-- Total # of Containers											

Sample Kit Prepared By: Briana Gregory	Date/Time: 10/22/10	Relinquished By: [signature]	Date/Time: 10/26/10 1350	Received By: [signature]	Date/Time: 10/26/10 1350
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-150 2.0°C G-58 C-804 C-801 2.1°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

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

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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Orlando, FL 32824
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(904) 296-3007 Fax (904) 296-6210

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

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Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info:
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning, CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Site Location / Time Zone:

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C012688

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B						Sample Comments
	9209-MW5R	10/25/10	1515	G	GW	19	X		X	X	X						See page 1
	9209-MW6	10/26/10	820	G	GW	19	X		X	X	X						
	9209-MW6d				GW	4											
	9209-MW7				GW	4											
	9209-MW8	10/25/10	~~1680~~ 1620	G	GW	19	X		X	X	X						
	9209-MW8d				GW	4											
	9209-MW9	10/26/10	945	G	GW	19	X	X	X	X	X						
	9209-MW10	10/25/10	1410	G	GW	19	X	X	X	X	X						
	9209-MW10d				GW	4											
	9209-MW11	10/26/10	1015	G	GW	19	X	X	X	X	X						
	9209-MW11d				GW	4											
	9209-MW22	10/26/10	720	G	GW	4											

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By: Briana Gregory	Date/Time: 10/22/10	Relinquished By: [signature]	Date/Time: 10/26/10 1350	Received By: [signature]	Date/Time: 10/26/10 1350
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:

Cooler #'s & Temps on Receipt: C-150 2.0°C G-58 C-804 C-801 2.1°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

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

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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info:
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Site Location / Time Zone:

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C012688

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300 Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	Sample Comments
	9209-MW23				GW	4	X	X						X			See page 1
	9209-MW23d				GW	4	X	X						X			
	9209-MW24				GW	4	X	X						X			
	9209-MW29d				GW	4	X	X						X			
	9209-MW30	10/26/10	1135	G	GW	4	X	X						X			
	9209-MW31	10/26/10	1035	G	GW	4	X	X						X			
	9209-MW31d	10/25/10	845	G	GW	4	X	X						X			
	9209-MW32	10/26/10	1110	G	GW	4	X	X						X			
	9209-TB1a	10/26/10	1055	G	GW	4	X	X						X			
	9209-TB1ad	10/25/10	950	G	GW	4	X	X						X			
	9209-MW36	10/26/10	915	G	GW	19	X	X	X	X	X	X	X	X		X	
	9209-MW36d				GW	4	X	X						X			

<-- Total # of Containers

Sample Kit Prepared By: Briana Gurney	Date/Time: 10/22/10	Relinquished By: [signature]	Date/Time: 10/26/10 1350	Received By: [signature]	Date/Time: 10-26-10 1350
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:

Cooler #'s & Temps on Receipt: C-150 2.0°C G-58 C-804 C-801 2.1°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

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

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

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

Page 4 of 6

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info:
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Site Location / Time Zone:

Requested Analyses: NOX 353.2; RSK 175 + CO2; Sulfate 300; Sulfide SM4500-S D; TOC SM5310B

Requested Turnaround Times: Note : Rush requests subject to acceptance by the facility. X Standard ___ Expedited Due __/__/__

Lab Workorder: C012688

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B	Sample Comments
	9209-MW23				GW	4						See page 1
	9209-MW23d				GW	4						
	9209-MW24				GW	4						
	9209-MW29d				GW	4						
	9209-MW30	10/26/10	1135	G	GW	4						
	9209-MW31	10/26/10	1035	G	GW	4						
	9209-MW31d	10/25/10	845	G	GW	4						
	9209-MW32	10/26/10	1110	G	GW	4						
	9209-TB1a	10/26/10	1055	G	GW	4						
	9209-TB1ad	10/25/10	950	G	GW	4						
	9209-MW36	10/26/10	915		GW	19	X	X	X	X	X	
	9209-MW36d				GW	4						
						<-- Total # of Containers						

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
Briana Gregory	10/20/10	[signature]	10/26/10 1350	[signature]	10/26/10 1350
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-150 20°C G-58 C-804 C-801 21°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

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

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

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CHAIN-OF-CUSTODY RECORD

Page 5 of 6

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: ()-	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Site Location / Time Zone

Requested Analyses

Requested Turnaround Times
Note : Rush requests subject to acceptance by the facility
X Standard
___ Expedited
Due __/__/__

Lab Workorder: C012688

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	Sample Comments
	9209-DUP				GW	4	X	X						X			See page 1
	9209-EQBlank				WA	4	X	X						X			
	9209-TripBlank	10/26/10	—	—	WA	2	X										

<-- Total # of Containers

Sample Kit Prepared By: Briana Gregory	Date/Time: 10/22/10	Relinquished By: [signature]	Date/Time: 10/26/10 1350	Received By: [signature]	Date/Time: 10/26/10 1350
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-150 20°C G-58 C-804 C-801 21°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

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

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Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Site Location / Time Zone

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C012688

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B	Sample Comments
	9209-DUP				GW	4						See Page 1
	9209-EQBlank				WA	4						
	9209-TripBlank	10/26/10	—	—	WA	2						

<-- Total # of Containers

Sample Kit Prepared By: Briana Gregory	Date/Time: 10/22/10	Relinquished By: [signature]	Date/Time: 10/26/10 1350	Received By: [signature]	Date/Time: 10/26/10 1350
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-150 2.0°C G-58 C-804 C-801 2.1°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

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

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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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Page 1 of 6

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info:
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone:

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder C013007 ~~C012688~~

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	Sample Comments
	9209-MW5R				GW	19	X	X	X	X	X	X	X	X	X	X	- report results
	9209-MW6				GW	19	X	X	X	X	X	X	X	X	X	X	according to NC
	9209-MW6d	10/27/10	1040	G	GW	4	X	X						X			SWS guidelines
	9209-MW7	10/27/10	740	G	GW	4	X	X						X			- report "J" value
	9209-MW8				GW	19	X	X	X	X	X	X	X	X	X	X	- provide rdd
	9209-MW8d	10/27/10	1000	G	GW	4	X	X						X			
	9209-MW9				GW	19	X	X	X	X	X	X	X	X		X	
	9209-MW10				GW	19	X	X	X	X	X	X	X	X		X	
	9209-MW10d	10/27/10	1125	G	GW	4	X	X						X			
	9209-MW11				GW	19	X	X	X	X	X	X	X	X		X	
	9209-MW11d	10/27/10	915	G	GW	4	X	X						X			
	9209-MW22				GW	4	X	X						X			

<-- Total # of Containers

Sample Kit Prepared By: Briana Gregory	Date/Time: 10/22/10	Relinquished By:	Date/Time: 10/27/10 1215	Received By:	Date/Time: 10/27/10 12:15
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:

Cooler #'s & Temps on Receipt: C-150 G-58 C-804 1.1°C C-801

Condition Upon Receipt: X Acceptable ___ Unacceptable

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

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CHAIN-OF-CUSTODY RECORD

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info:
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Site Location / Time Zone:

Requested Analyses: NOX 353.2; RSK 175 + CO2; Sulfate 300; Sulfide SM4500-S D; TOC SM5310B

Requested Turnaround Times: Note : Rush requests subject to acceptance by the facility
X Standard
___ Expedited
Due __/__/__

Lab Workorder C013007 ~~C012688~~

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B						Sample Comments
	9209-MW5R				GW	19	X		X	X	X						see page 1
	9209-MW6				GW	19	X		X	X	X						
	9209-MW6d	10/27/10	1040	G	GW	4											
	9209-MW7	10/27/10	740	G	GW	4											
	9209-MW8				GW	19	X		X	X	X						
	9209-MW8d	10/27/10	1000	G	GW	4											
	9209-MW9				GW	19	X	X	X	X	X						
	9209-MW10				GW	19	X	X	X	X	X						
	9209-MW10d	10/27/10	1125	G	GW	4											
	9209-MW11				GW	19	X	X	X	X	X						
	9209-MW11d	10/27/10	915	G	GW	4											
	9209-MW22				GW	4											

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
Briana Gregory	10/22/10	[signature]	10/27/10 1215	[signature]	10/27/10 1215
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-150 G-58 C-804 1.1°C C-801

Condition Upon Receipt: X Acceptable ___ Unacceptable

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

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

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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: ()-	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

__ Expedited

Due __/__/__

Lab Workorder C013007 ~~C012688~~

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	Sample Comments
	9209-MW23	10/27/10	700	G	GW	4	X	X						X			See Page 1
	9209-MW23d	10/26/10	1700	G	GW	4	X	X						X			
	9209-MW24	10/27/10	725	G	GW	4	X	X						X			
	9209-MW29d	10/27/10	820	G	GW	4	X	X						X			
	9209-MW30				GW	4	X	X						X			
	9209-MW31				GW	4	X	X						X			
	9209-MW31d				GW	4	X	X						X			
	9209-MW32				GW	4	X	X						X			
	9209-TB1a				GW	4	X	X						X			
	9209-TB1ad				GW	4	X	X						X			
	9209-MW36				GW	19	X	X	X	X	X	X	X	X		X	
	9209-MW36d	10/27/10	1115	G	GW	4	X	X						X			
						<-- Total # of Containers											

Sample Kit Prepared By: Biana Gregory	Date/Time: 10/22/10	Relinquished By:	Date/Time: 10/27/10 1215	Received By:	Date/Time: 10/27/10 1215
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:

Cooler #'s & Temps on Receipt: C-150 G-58 C-804 1.1°C C-801

Condition Upon Receipt: X Acceptable __ Unacceptable

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

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

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www.encolabs.com

CHAIN-OF-CUSTODY RECORD

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone

Requested Turnaround Times
Note : Rush requests subject to acceptance by the facility
X Standard
___ Expedited
Due __/__/__
Lab Workorder C013007 ~~C012688~~

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B						Sample Comments
	9209-MW23	10/27/10	700	G	GW	4											see page 1
	9209-MW23d	10/26/10	1700	G	GW	4											
	9209-MW24	10/27/10	725	G	GW	4											
	9209-MW29d	10/27/10	820	G	GW	4											
	9209-MW30				GW	4											
	9209-MW31				GW	4											
	9209-MW31d				GW	4											
	9209-MW32				GW	4											
	9209-TB1a				GW	4											
	9209-TB1ad				GW	4											
	9209-MW36				GW	19	X	X	X	X	X						
	9209-MW36d	10/27/10	1115	G	GW	4											
						<-- Total # of Containers											

Sample Kit Prepared By: Briana Gregory	Date/Time: 10/20/10	Relinquished By:	Date/Time: 10/27/10 1215	Received By:	Date/Time: 10/27/10 12:15
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: C-150 G-58 C-804 1.1°C C-801		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 211 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515
www.encolabs.com

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weisofenning
Sampler(s) Name, Affiliation (Print): Aaron Weisofenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Site Location / Time Zone

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder C013007 ~~C012688~~

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	Sample Comments
	9209-DUP	10/27/10	1200	G	GW	4	X	X						X			See page 1
	9209-EQBlank	10/27/10	900	G	WA	4	X	X						X			
	9209-TripBlank				WA	2	X										

<-- Total # of Containers

Sample Kit Prepared By: Briana Gregory	Date/Time: 10/22/10	Relinquished By: [signature]	Date/Time: 10/27/10 1215	Received By: [signature]	Date/Time: 10/27/10 1215
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-150 G-58 C-804 1.1°C C-801		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Page 6 of 6

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: ()-	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): AW CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: Aaron Weispfenning	Site Location / Time Zone

Requested Analyses: NOX 353.2; RSK 175 + CO2; Sulfate 300; Sulfide SM4500-S D; TOC SM5310B

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder C013007 ~~C012688~~

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Sample Comments
	9209-DUP	10/27/10	1200	G	GW	4	See page 1
	9209-EQBlank	10/27/10	900	G	WA	4	
	9209-TripBlank				WA	2	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
Briana Geary	10/23/10	AW	10/27/10 1215	[illegible]	10/27 1215
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-150 G-58 C-804 -1.1°C C-801

Condition Upon Receipt: X Acceptable ___ Unacceptable

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

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

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

Tuesday, November 9, 2010

CDM (CD004)

Attn: Aaron Weispfenning

5400 GLENWOOD AVE SUITE 300

RALEIGH, NC 27612-

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: N Wake Unlined Surface Waters
ENCO Workorder: C012700

Dear Aaron Weispfenning,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, October 26, 2010.

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

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

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

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

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 22.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 9209-SW2 **Lab ID: C012700-01** **Sampled: 10/26/10 13:30** **Received: 10/26/10 13:50**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/24/11	10/27/10 09:11	11/1/2010 14:07
EPA 6020A	04/24/11	10/27/10 09:18	11/3/2010 10:49
EPA 8260B	11/09/10	11/01/10 13:15	11/2/2010 07:23

Client ID: 9209-SW3 **Lab ID: C012700-02** **Sampled: 10/26/10 11:25** **Received: 10/26/10 13:50**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/24/11	10/27/10 09:11	11/1/2010 14:10
EPA 6020A	04/24/11	10/27/10 09:18	11/3/2010 10:53
EPA 8260B	11/09/10	11/01/10 13:15	11/2/2010 07:53

Client ID: 9209-SW7 **Lab ID: C012700-03** **Sampled: 10/26/10 13:00** **Received: 10/26/10 13:50**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/24/11	10/27/10 09:11	11/1/2010 14:14
EPA 6020A	04/24/11	10/27/10 09:18	11/3/2010 10:57
EPA 8260B	11/09/10	11/01/10 13:15	11/2/2010 08:22

Client ID: 9209-SW8 **Lab ID: C012700-04** **Sampled: 10/26/10 13:15** **Received: 10/26/10 13:50**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/24/11	10/27/10 09:11	11/1/2010 14:17
EPA 6020A	04/24/11	10/27/10 09:18	11/3/2010 11:00
EPA 8260B	11/09/10	11/01/10 13:15	11/2/2010 08:51

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 9209-SW2 **Lab ID: C012700-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	27.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Total	3.32	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	2.59	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	4.67	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-SW3 **Lab ID: C012700-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	17.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	1.03	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.08	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.41	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	4.15	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-SW7 **Lab ID: C012700-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	21.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	1.71	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.07	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.77	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	4.95	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-SW8 **Lab ID: C012700-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	21.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Total	3.18	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.49	J	1	1.40	10.0	25	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 9209-SW2 **Lab Sample ID:** C012700-01 **Received:** 10/26/10 13:50

Matrix: Surface Water **Sampled:** 10/26/10 13:30 **Work Order:** C012700

Project: N Wake Unlined Surface Waters **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 07:23	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 07:23	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 07:23	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 07:23	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 07:23	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 07:23	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 07:23	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 07:23	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 07:23	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 07:23	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 07:23	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 07:23	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 07:23	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 07:23	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 07:23	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 07:23	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 07:23	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 07:23	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 07:23	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 07:23	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 07:23	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 07:23	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 07:23	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 07:23	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 07:23	JKG	

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Description: 9209-SW2
Matrix: Surface Water
Project: N Wake Unlined Surface Waters

Lab Sample ID: C012700-01
Sampled: 10/26/10 13:30
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012700

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 07:23	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 07:23	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 07:23	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*105 %*	*51-122*	*0K01026*	*EPA 8260B*	*11/02/10 07:23*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*0K01026*	*EPA 8260B*	*11/02/10 07:23*	*JKG*	
Toluene-d8	*52*	*1*	*50.0*	*104 %*	*69-110*	*0K01026*	*EPA 8260B*	*11/02/10 07:23*	*JKG*	

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Description: 9209-SW2 | **Lab Sample ID:** C012700-01 | **Received:** 10/26/10 13:50

Matrix: Surface Water | **Sampled:** 10/26/10 13:30 | **Work Order:** C012700

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 10:49	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 14:07	JDH	
Barium [7440-39-3] ^	**27.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 14:07	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 14:07	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 14:07	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 14:07	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 14:07	JDH	
Copper [7440-50-8] ^	**3.32**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 14:07	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 14:07	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 14:07	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 10:49	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 14:07	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 10:49	VLO	
Vanadium [7440-62-2] ^	**2.59**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 14:07	JDH	
Zinc [7440-66-6] ^	**4.67**	J	ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 14:07	JDH	

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

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Description: 9209-SW3 | **Lab Sample ID:** C012700-02 | **Received:** 10/26/10 13:50

Matrix: Surface Water | **Sampled:** 10/26/10 11:25 | **Work Order:** C012700

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 07:53	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 07:53	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 07:53	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 07:53	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 07:53	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 07:53	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 07:53	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 07:53	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 07:53	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 07:53	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 07:53	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 07:53	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 07:53	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 07:53	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 07:53	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 07:53	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 07:53	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 07:53	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 07:53	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 07:53	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 07:53	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 07:53	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 07:53	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 07:53	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 07:53	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 07:53	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 07:53	JKG	

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Description: 9209-SW3
Matrix: Surface Water
Project: N Wake Unlined Surface Waters

Lab Sample ID: C012700-02
Sampled: 10/26/10 11:25
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012700

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 07:53	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*107 %*	*51-122*	*0K01026*	*EPA 8260B*	*11/02/10 07:53*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*0K01026*	*EPA 8260B*	*11/02/10 07:53*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*69-110*	*0K01026*	*EPA 8260B*	*11/02/10 07:53*	*JKG*	

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Description: 9209-SW3 | **Lab Sample ID:** C012700-02 | **Received:** 10/26/10 13:50

Matrix: Surface Water | **Sampled:** 10/26/10 11:25 | **Work Order:** C012700

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 10:53	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 14:10	JDH	
Barium [7440-39-3] ^	**17.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 14:10	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 14:10	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 14:10	JDH	
Chromium [7440-47-3] ^	**1.03**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 14:10	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 14:10	JDH	
Copper [7440-50-8] ^	**4.08**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 14:10	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 14:10	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 14:10	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 10:53	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 14:10	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 10:53	VLO	
Vanadium [7440-62-2] ^	**3.41**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 14:10	JDH	
Zinc [7440-66-6] ^	**4.15**	J	ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 14:10	JDH	

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

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Description: 9209-SW7 | **Lab Sample ID:** C012700-03 | **Received:** 10/26/10 13:50

Matrix: Surface Water | **Sampled:** 10/26/10 13:00 | **Work Order:** C012700

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 08:22	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 08:22	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 08:22	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 08:22	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 08:22	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 08:22	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 08:22	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 08:22	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 08:22	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 08:22	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 08:22	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 08:22	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 08:22	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 08:22	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 08:22	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 08:22	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 08:22	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 08:22	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 08:22	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 08:22	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 08:22	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 08:22	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 08:22	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 08:22	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 08:22	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 08:22	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 08:22	JKG	

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Description: 9209-SW7
Matrix: Surface Water
Project: N Wake Unlined Surface Waters

Lab Sample ID: C012700-03
Sampled: 10/26/10 13:00
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012700

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 08:22	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*51-122*	*0K01026*	*EPA 8260B*	*11/02/10 08:22*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*0K01026*	*EPA 8260B*	*11/02/10 08:22*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*103 %*	*69-110*	*0K01026*	*EPA 8260B*	*11/02/10 08:22*	*JKG*	

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Description: 9209-SW7 | **Lab Sample ID:** C012700-03 | **Received:** 10/26/10 13:50

Matrix: Surface Water | **Sampled:** 10/26/10 13:00 | **Work Order:** C012700

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 10:57	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 14:14	JDH	
Barium [7440-39-3] ^	**21.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 14:14	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 14:14	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 14:14	JDH	
Chromium [7440-47-3] ^	**1.71**	J	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 14:14	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 14:14	JDH	
Copper [7440-50-8] ^	**4.07**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 14:14	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 14:14	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 14:14	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 10:57	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 14:14	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 10:57	VLO	
Vanadium [7440-62-2] ^	**3.77**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 14:14	JDH	
Zinc [7440-66-6] ^	**4.95**	J	ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 14:14	JDH	

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

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Description: 9209-SW8 | **Lab Sample ID:** C012700-04 | **Received:** 10/26/10 13:50

Matrix: Surface Water | **Sampled:** 10/26/10 13:15 | **Work Order:** C012700

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 08:51	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	11/02/10 08:51	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	11/02/10 08:51	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	11/02/10 08:51	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/10 08:51	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	11/02/10 08:51	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	11/02/10 08:51	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	11/02/10 08:51	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/10 08:51	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/10 08:51	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	11/02/10 08:51	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	11/02/10 08:51	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	11/02/10 08:51	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	11/02/10 08:51	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	11/02/10 08:51	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	11/02/10 08:51	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	11/02/10 08:51	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	11/02/10 08:51	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	11/02/10 08:51	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	11/02/10 08:51	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	11/02/10 08:51	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	11/02/10 08:51	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	11/02/10 08:51	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	11/02/10 08:51	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	11/02/10 08:51	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	11/02/10 08:51	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	11/02/10 08:51	JKG	

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Description: 9209-SW8
Matrix: Surface Water
Project: N Wake Unlined Surface Waters

Lab Sample ID: C012700-04
Sampled: 10/26/10 13:15
Sampled By: Aaron Weispfenning

Received: 10/26/10 13:50
Work Order: C012700

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	11/02/10 08:51	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*0K01026*	*EPA 8260B*	*11/02/10 08:51*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*0K01026*	*EPA 8260B*	*11/02/10 08:51*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*69-110*	*0K01026*	*EPA 8260B*	*11/02/10 08:51*	*JKG*	

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Description: 9209-SW8 | **Lab Sample ID:** C012700-04 | **Received:** 10/26/10 13:50

Matrix: Surface Water | **Sampled:** 10/26/10 13:15 | **Work Order:** C012700

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	11/03/10 11:00	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	11/01/10 14:17	JDH	
Barium [7440-39-3] ^	**21.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	11/01/10 14:17	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	11/01/10 14:17	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	11/01/10 14:17	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	11/01/10 14:17	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	11/01/10 14:17	JDH	
Copper [7440-50-8] ^	**3.18**	J	ug/L	1	1.60	10.0	10	EPA 6010C	11/01/10 14:17	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 14:17	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	11/01/10 14:17	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	11/03/10 11:00	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	11/01/10 14:17	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	11/03/10 11:00	VLO	
Vanadium [7440-62-2] ^	**3.49**	J	ug/L	1	1.40	10.0	25	EPA 6010C	11/01/10 14:17	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	11/01/10 14:17	JDH	

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

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K01026 - EPA 5030B_MS

Blank (0K01026-BLK1) Prepared: 11/01/2010 13:15 Analyzed: 11/02/2010 01:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*107*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0K01026 - EPA 5030B_MS

Blank (0K01026-BLK1) Continued Prepared: 11/01/2010 13:15 Analyzed: 11/02/2010 01:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*104*	*69-110*			

LCS (0K01026-BS1) Prepared: 11/01/2010 13:15 Analyzed: 11/02/2010 01:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		100	75-133			
Benzene	19		1.0	ug/L	20.0		94	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	19		1.0	ug/L	20.0		94	71-118			
Trichloroethene	20		1.0	ug/L	20.0		99	75-115			
Surrogate: 4-Bromofluorobenzene	*55*			*ug/L*	*50.0*		*110*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*101*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*103*	*69-110*			

Matrix Spike (0K01026-MS1) Prepared: 11/01/2010 13:15 Analyzed: 11/02/2010 02:03

Source: C013061-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	105	75-133			
Benzene	20		1.0	ug/L	20.0	0.20 U	99	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.27 U	92	83-117			
Toluene	18		1.0	ug/L	20.0	0.27 U	90	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	102	75-115			
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*102*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*103*	*69-110*			

Matrix Spike Dup (0K01026-MSD1) Prepared: 11/01/2010 13:15 Analyzed: 11/02/2010 02:32

Source: C013061-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	96	75-133	9	20	
Benzene	18		1.0	ug/L	20.0	0.20 U	90	81-134	9	17	
Chlorobenzene	17		1.0	ug/L	20.0	0.27 U	83	83-117	10	16	
Toluene	16		1.0	ug/L	20.0	0.27 U	82	71-118	10	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	96	75-115	6	18	
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*99*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*103*	*69-110*			

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

Batch 0J27007 - EPA 3005A

Blank (0J27007-BLK1) Prepared: 10/27/2010 09:11 Analyzed: 11/01/2010 12:46

QUALITY CONTROL

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

Batch 0J27007 - EPA 3005A

Blank (0J27007-BLK1) Continued Prepared: 10/27/2010 09:11 Analyzed: 11/01/2010 12:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0J27007-BS1) Prepared: 10/27/2010 09:11 Analyzed: 11/01/2010 12:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	548		10.0	ug/L	500		110	80-120			
Barium	539		10.0	ug/L	500		108	80-120			
Beryllium	280		1.00	ug/L	250		112	80-120			
Cadmium	275		1.00	ug/L	250		110	80-120			
Chromium	547		10.0	ug/L	500		109	80-120			
Cobalt	536		10.0	ug/L	500		107	80-120			
Copper	276		10.0	ug/L	250		110	80-120			
Lead	547		10.0	ug/L	500		109	80-120			
Nickel	543		10.0	ug/L	500		109	80-120			
Silver	276		10.0	ug/L	250		110	80-120			
Vanadium	267		10.0	ug/L	250		107	80-120			
Zinc	551		10.0	ug/L	500		110	80-120			

Matrix Spike (0J27007-MS1) Prepared: 10/27/2010 09:11 Analyzed: 11/01/2010 12:58

Source: C012688-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	548		10.0	ug/L	500	2.80 U	110	75-125			
Barium	548		10.0	ug/L	500	14.8	107	75-125			
Beryllium	278		1.00	ug/L	250	0.111	111	75-125			
Cadmium	266		1.00	ug/L	250	0.360 U	107	75-125			
Chromium	536		10.0	ug/L	500	6.56	106	75-125			
Cobalt	547		10.0	ug/L	500	1.10 U	109	75-125			
Copper	267		10.0	ug/L	250	1.60 U	107	75-125			
Lead	551		10.0	ug/L	500	1.90 U	110	75-125			
Nickel	527		10.0	ug/L	500	1.80 U	105	75-125			
Silver	261		10.0	ug/L	250	1.90 U	104	75-125			
Vanadium	266		10.0	ug/L	250	7.10	104	75-125			
Zinc	548		10.0	ug/L	500	10.6	108	75-125			

Matrix Spike Dup (0J27007-MSD1) Prepared: 10/27/2010 09:11 Analyzed: 11/01/2010 13:00

QUALITY CONTROL

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

Batch 0J27007 - EPA 3005A

Matrix Spike Dup (0J27007-MSD1) Continued Prepared: 10/27/2010 09:11 Analyzed: 11/01/2010 13:00

Source: C012688-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	559		10.0	ug/L	500	2.80 U	112	75-125	2	20	
Barium	566		10.0	ug/L	500	14.8	110	75-125	3	20	
Beryllium	288		1.00	ug/L	250	0.111	115	75-125	4	20	
Cadmium	276		1.00	ug/L	250	0.360 U	110	75-125	4	20	
Chromium	558		10.0	ug/L	500	6.56	110	75-125	4	20	
Cobalt	557		10.0	ug/L	500	1.10 U	111	75-125	2	20	
Copper	278		10.0	ug/L	250	1.60 U	111	75-125	4	20	
Lead	560		10.0	ug/L	500	1.90 U	112	75-125	2	20	
Nickel	546		10.0	ug/L	500	1.80 U	109	75-125	4	20	
Silver	269		10.0	ug/L	250	1.90 U	107	75-125	3	20	
Vanadium	277		10.0	ug/L	250	7.10	108	75-125	4	20	
Zinc	568		10.0	ug/L	500	10.6	111	75-125	3	20	

Post Spike (0J27007-PS1) Prepared: 10/27/2010 09:11 Analyzed: 11/01/2010 13:03

Source: C012688-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.13		0.0100	mg/L	1.00	6.53E-5	113	80-120			
Barium	1.16		0.0100	mg/L	1.00	0.0148	114	80-120			
Beryllium	0.584		0.00100	mg/L	0.500	0.000111	117	80-120			
Cadmium	0.571		0.00100	mg/L	0.500	3.06E-5	114	80-120			
Chromium	1.15		0.0100	mg/L	1.00	0.00656	115	80-120			
Cobalt	1.12		0.0100	mg/L	1.00	-0.000126	112	80-120			
Copper	0.586		0.0100	mg/L	0.500	0.00106	117	80-120			
Lead	1.13		0.0100	mg/L	1.00	-7.25E-5	113	80-120			
Nickel	1.12		0.0100	mg/L	1.00	-9.50E-5	112	80-120			
Silver	0.554		0.0100	mg/L	0.500	-0.000961	111	80-120			
Vanadium	0.571		0.0100	mg/L	0.500	0.00710	113	80-120			
Zinc	1.16		0.0100	mg/L	1.00	0.0106	114	80-120			

Batch 0J27008 - EPA 3005A

Blank (0J27008-BLK1) Prepared: 10/27/2010 09:18 Analyzed: 11/03/2010 09:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	**0.425**	**J**	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (0J27008-BS1) Prepared: 10/27/2010 09:18 Analyzed: 11/03/2010 09:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.1	B	2.00	ug/L	25.0		109	80-120			
Selenium	26.2		1.00	ug/L	25.0		105	80-120			
Thallium	27.1		1.00	ug/L	25.0		108	80-120			

QUALITY CONTROL

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

Batch 0J27008 - EPA 3005A

Matrix Spike (0J27008-MS1) Prepared: 10/27/2010 09:18 Analyzed: 11/03/2010 09:33

Source: C012688-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.1	B	2.00	ug/L	25.0	1.33	103	75-125			
Selenium	27.6		1.00	ug/L	25.0	0.830 U	110	75-125			
Thallium	27.1		1.00	ug/L	25.0	0.110 U	108	75-125			

Matrix Spike Dup (0J27008-MSD1) Prepared: 10/27/2010 09:18 Analyzed: 11/03/2010 09:37

Source: C012688-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.2	B	2.00	ug/L	25.0	1.33	104	75-125	0.4	20	
Selenium	27.8		1.00	ug/L	25.0	0.830 U	111	75-125	0.6	20	
Thallium	27.1		1.00	ug/L	25.0	0.110 U	108	75-125	0.02	20	

Post Spike (0J27008-PS1) Prepared: 10/27/2010 09:18 Analyzed: 11/03/2010 09:40

Source: C012688-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	30.4	B	2.00	ug/L	25.0	1.33	116	80-120			
Selenium	29.1		1.00	ug/L	25.0	-0.738	119	80-120			
Thallium	28.6		1.00	ug/L	25.0	-0.209	115	80-120			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES
10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 211 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515
www.encolabs.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: N Wake Unlined Surface Waters
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info:
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature:	Site Location / Time Zone:

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

Requested Turnaround Times
Note: Rush requests subject to acceptance by the facility
X Standard
___ Expedited
Due ___/___/___

Lab Workorder: C012700

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Sample Comments
	9209-SW2	10/26/10	1330	G	SW	4	X	X	-report results according to NC SWS guidelines
	9209-SW3	10/26/10	1125	G	SW	4	X	X	-report "J" values
	9209-SW7	10/26/10	1300	G	SW	4	X	X	-provide edd
	9209-SW8	10/26/10	1315	G	SW	4	X	X	
						16	<-- Total # of Containers		

Sample Kit Prepared By: LB	Date/Time: 10/21	Relinquished By:	Date/Time: 10/26/10 1350	Received By:	Date/Time: 10-26-10 1350
Comments/Special Reporting Requirements		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: C-JX-006 2.8°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

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

Client Name: Environmental Conservation Labs, Inc.
Contact: Chuck Smith
Address: 102 A Woodwinds Industrial Court
Cary, NC 27511

Page: Page 1 of 4
Lab Proj #: P1010445
Report Date: 11/11/10
Client Proj Name: N Wake Unlined
Client Proj #: N Wake Unlined

Laboratory Results

Total pages in data package: 5

Lab Sample #	Client Sample ID
P1010445-01	MW-5R
P1010445-02	MW-8
P1010445-03	MW-6

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo (HH) ***Date:*** 11·11·10

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Environmental Conservation Labs, Inc.
Contact: Chuck Smith
Address: 102 A Woodwinds Industrial Court
Cary, NC 27511

Lab Proj #: P1010445
Report Date: 11/11/10
Client Proj Name: N Wake Unlined
Client Proj #: N Wake Unlined

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-5R	Vapor	P1010445-01	25 Oct. 10 15:35	27 Oct. 10 13:45

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	4.200	0.600	nM	AM20GAX	11/6/10	sl

N - NELAC certified analysis
PA02-00538

Client Name: Environmental Conservation Labs, Inc.
Contact: Chuck Smith
Address: 102 A Woodwinds Industrial Court
Cary, NC 27511

Lab Proj #: P1010445
Report Date: 11/11/10
Client Proj Name: N Wake Unlined
Client Proj #: N Wake Unlined

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-8	Vapor	P1010445-02	25 Oct. 10 16:40	27 Oct. 10 13:45

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	4.900	0.600	nM	AM20GAX	11/6/10	sl

N - NELAC certified analysis
PA02-00538

Client Name: Environmental Conservation Labs, Inc.
Contact: Chuck Smith
Address: 102 A Woodwinds Industrial Court
Cary, NC 27511

Lab Proj #: P1010445
Report Date: 11/11/10
Client Proj Name: N Wake Unlined
Client Proj #: N Wake Unlined

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-6	Vapor	P1010445-03	26 Oct. 10 8:35	27 Oct. 10 13:45

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	4.300	0.600	nM	AM20GAX	11/6/10	sl

N - NELAC certified analysis
PA02-00538

P1010445

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

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

Client Name: CDM	Project Number: N Water Unlined
Address: 5400 Glenwood Ave, Suite 300	Project Name/Desc:
City/ST/Zip: Raleigh NC 27612	PO # / Billing Info:
Tel: 919-325-3500 / Fax:	Reporting Contact: Aaron Weisfenning
Sampler(s) Name, Affiliation (Print): Aaron Weisfenning CDM	Billing Contact:
Sampler(s) Signature:	Facility # (if required):

Requested Analyses: Dissolved Hydrogen

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Dissolved Hydrogen	Sample Comments
	MW-5R	10/25/10	1535	G	A	1	X	
	MW-8	10/25/10	1640	G	A	1	X	
	MW-6	10/26/10	835	G	A	1	X	
						3		← Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	10/26/10 1350	[signature]	10/26/10 1350
Comments		Relinquished By: Brian Henry	10/26/10 1700	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time 10/27/10 [illegible]

Cooler #'s & Temps on Receipt

Condition Upon Receipt: ___ Acceptable ___ Unacceptable

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

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

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

MW-5R
October 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 10

Scroll to End of Table

Analysis	Most Contam. Zone	Interpretation	Yes	No	Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	◉	○	1
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	◉	○	3
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	◉	0
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	○	◉	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	○	◉	0
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

MW-6
October 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 28

Scroll to End of Table

Analysis	Most Contam. Zone	Interpretation	Yes	No	Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	◉	○	3
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	◉	○	3
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	◉	○	2
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	◉	○	2
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	◉	○	1
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	◉	○	2
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	◉	○	3
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	◉	○	2
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	○	◉	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE

Reset

MW-8
October 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 22

Scroll to End of Table

Analysis	Most Contam. Zone	Interpretation	Yes	No	Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	◉	○	3
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	◉	0
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	◉	○	2
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	◉	○	3
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	◉	○	2
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	○	◉	0
TCE*		Daughter product of PCE [a/]	◉	○	2
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE

Reset

MW-9
October 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 23

Scroll to End of Table

Analysis	Most Contam. Zone	Interpretation	Yes	No	Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	◉	○	3
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	◉	○	3
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	◉	○	1
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	◉	○	2
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	◉	0
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	◉	○	2
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	○	◉	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	◉	○	2
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

MW-10
October 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 20

Scroll to End of Table

Analysis	Most Contam. Zone	Interpretation	Yes	No	Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	◉	○	3
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	◉	○	1
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	◉	0
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	◉	0
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	◉	○	2
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	◉	○	2
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	◉	○	2
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

MW-11
October 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 1

Scroll to End of Table

Analysis	Most Contam. Zone	Interpretation	Yes	No	Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	◉	○	-3
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	○	◉	0
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	◉	0
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	◉	0
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	◉	0
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	◉	0
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	○	◉	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	○	◉	0
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

MW-36
October 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 14

Scroll to End of Table

Analysis	Most Contam. Zone	Interpretation	Yes	No	Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	◉	0
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	◉	0
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	◉	0
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	◉	○	2
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	◉	○	2
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE

Reset