North Wake Unlined Landfill Facility Permit No. 92-09 Semi-Annual Sampling Report

(April 2012 Sampling Event)

Wake County

Report

June 2012

WAKE COUNTY
NORTH CAROLINA

CDM Smith

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 (CDM Smith)

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@cdmsmith.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	April 24-26, 2012

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

Mathew F. Colone — Signature
6/11/2012 — Date
Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1851 GEOLOGIST MATHEW F. COLONE
6/11/2012

5400 Glenwood Ave, Suite 300, Raleigh, NC 27612
Facility Representative Address

F-0412
NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

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June 11, 2012

Ms. Jaclynne Drummond
North Carolina Department of Environment and
Natural Resources
Division of Waste Management
Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Subject: April 2012 Semi-Annual Monitoring Sampling Report
North Wake Unlined Landfill
Facility Permit No. 92-09

Dear Ms. Drummond:

Camp Dresser & Mckee, on behalf of Wake County, is submitting an electronic copy of the April 2012 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 first semi-annual sampling event for 2012.

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, 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 sampled annually during the spring event.

MW-5R has been sampled in place of MW-5 since April 2004 and is approximately 50 feet downgradient of MW-5. 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 Appendix I metals plus mercury. 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 (CAP).

In a letter dated March 22, 2012, the North Carolina Department of Environment and Natural Resources – Solid Waste Section (SWS) approved Wake County's request to discontinue collecting samples from select wells for herbicide and pesticide analyses during the semi-annual spring sampling event. However, the SWS requested that MW-29d continue to be sampled for bis(2-ethylhexyl) phthalate due to a detection from the March 2011 sampling event. In accordance with the SWS's request, bis(2-ethylhexyl) phthalate was collected from MW-29d for the April 2012 sampling event. Field activites and sampling results 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 April 24-26, 2012. Groundwater samples were collected by use of a peristaltic pump or disposable, laboratory decontaminated 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 shown on **Figure 1**. The groundwater elevations and potentiometric contours were also used to estimate groundwater velocities at each well as 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) using a YSI-556 multi-parameter probe and a HANNA HI 98703 turbidity meter. Wells that had elevated turbidity were allowed to stabilize prior to sample collection.The field parameters at the time of sampling are shown in **Table 1**.

Sampling Results

All groundwater and surface water samples were analyzed by Environmental Conservation Laboratories, Inc. in Cary, North Carolina. In accordance with 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. "B" values which indicate that the analyte was detected in the method blank were also reported.

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:	Zinc
Volatile Organic Compounds:	None Detected

MW-11d (Deep Background)

Metals:	None Detected
Volatile Organic Compounds:	None Detected

MW-5R

Metals:	None Detected
Volatile Organic Compounds:	None Detected

MW-6

Metals:	Barium, <u>Cobalt</u>, Zinc
Volatile Organic Compounds:	None Detected

MW-6d

Metals:	None Detected
Volatile Organic Compounds:	None Detected

MW-7

Metals:	<u>Chromium</u>, <u>Cobalt</u>, Copper, Zinc
Volatile Organic Compounds:	Acetone

MW-8

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

MW-8d

Metals:	Copper
Volatile Organic Compounds:	None Detected

MW-9

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

MW-10

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

MW-10d

Metals:	None Detected
Volatile Organic Compounds:	None Detected

MW-22

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

MW-23

Metals:	Copper, Zinc
Volatile Organic Compounds:	None Detected

MW-23d

Metals:	Copper
Volatile Organic Compounds:	None Detected

MW-24

Metals:	Zinc
Volatile Organic Compounds:	Chloroform

MW-28

Metals:	Chromium, Zinc
Volatile Organic Compounds:	None Detected

MW-28d

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

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:	Chromium, Zinc
Volatile Organic Compounds:	None Detected

MW-31d

Metals:	Copper, Zinc
Volatile Organic Compounds:	Chloroform

MW-32

Metals:	None Detected
Volatile Organic Compounds:	None Detected

TB-1a

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

TB-1a deep

Metals:	Chromium, Copper
Volatile Organic Compounds:	Chloroform

MW-33

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

MW-34

Metals:	Barium, Beryllium, Chromium, Copper, Mercury, Vanadium, Zinc
Volatile Organic Compounds:	p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Methylene Chloride, Tetrachloroethene, Trichloroethene

MW-34d
Metals: None Detected
Volatile Organic Compounds: None Detected

MW-35
Metals: Zinc
Volatile Organic Compounds: None Detected

MW-36
Metals: Zinc
Volatile Organic Compounds: 1,1-Dichloroethane

MW-36d
Metals: Copper
Volatile Organic Compounds: 1,1-Dichloroethane, 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

Equipment Blank
Metals: None Detected
Volatile Organic Compounds: None Detected

Trip Blank

Metals:	Not Tested
Volatile Organic Compounds:	None Detected

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

1,2-Dichloropropane:	MW-9
Tetrachloroethene:	MW-36d
Vinyl Chloride:	Mw-6, MW-7
Antimony:	MW-6d, -8d, -28d, -31d
Cobalt:	MW-9, -10, -23, -28, -28d, -30, -32, -34, -35, -36
Thallium:	MW-28, -30
Vanadium:	MW-6d, -7, -8, -8d, -11, -11d, -23, -23d, -24, -28, -28d, -29d, -31, -31d, -32, TB-1A d, -34d, -35, -36, -36d

The equipment blank had "J" flag detections of copper and lead. No analytes were detected in the trip blank. The duplicate sample, identified as Dup, was collected from MW-6d and had similar concentrations of all compounds found in MW-6d. **Table 4** presents a summary of all parameters detected during the April 2012 sampling event that exceeded the 2L Standard or the Groundwater Protection Standard.

Monitored Natural Attenuation Sampling

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 SWS guidelines. These parameters include 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 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 **Appendix A**.

BIOCHLOR, a U.S. 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 April 2012 data, there is adequate to strong evidence that anaerobic biodegradation is occurring in MW-6, MW-8, MW-9, and MW-10. MW-5R scored the lowest since no VOCs were detected. 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 CAP (March 2010), concentrations of some of the data from select wells indicates 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 installed a vacuum extraction system around the perimeter of the landfill in January 2002 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. 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 partially weathered rock between MW-9 and the MW-6 nested pair. The air sparging system has been installed but the permanent power source is not scheduled to be installed until June 2012. The system will be activated upon installation of the power source.

Recommendations

Wake County will continue with the semi-annual assessment monitoring program. In addition to sampling for Appendix I metals plus mercury, Appendix I VOCs plus dichlorodifluoromethane, and the Appendix II constituent, bis(2-ethylhexyl) phthalate (sampled at MW-29d only), samples collected from MW-5R, -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 recent and historic 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 2013 sampling event.

CDM Smith

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 SWS in December 2009. The pilot test was conducted in July and August 2010 near MW-6. The full-scale system was installed in October 2011 and is expected to be operational before the fall 2012 sampling event.

If you have any questions or require further explanation, do not hesitate to call me at (919) 787-5620.

Very truly yours,

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

cc: John Roberson, WCSWM
Elliott Cornell, WCSWM

Table 1
Water Quality Parameters
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well I.D.	Water Quality Parameters						Groundwater Elevations		
	pH	Conductivity	Temperature	Turbidity	DO	ORP	TOC Elevation	Depth to Groundwater	Groundwater Elevation
	(S.U.)	(uS)	(deg. C)	(NTU)	(mg/L)	(mV)	(feet AMSL)	(feet)	(feet AMSL)
MW-5R	5.72	295	15.9	6	1.48	192.5	225.28	15.88	209.40
MW-6	5.85	703	15.9	4	2.14	168.6	219.80	12.51	207.29
MW-6d	5.75	173	17.3	65	1.49	193.7	218.61	12.94	205.67
MW-7	5.73	478	15.8	25	2.22	217.4	234.15	12.44	221.71
MW-8	5.64	188	15.3	8	1.67	161.7	226.38	11.33	215.05
MW-8d	6.07	162	17.0	8	1.85	208.2	226.16	12.49	213.67
MW-9	5.95	540	17.3	19	3.11	94.8	242.69	30.17	212.52
MW-10	5.41	248	16.8	55	2.62	127.9	274.76	43.84	230.92
MW-10d	5.80	164	18.1	81	4.15	220.2	274.54	47.95	226.59
MW-11	5.47	75	16.1	38	6.22	112.2	343.63	44.02	299.61
MW-11d	5.75	96	16.4	15	5.80	191.2	343.27	44.22	299.05
MW-22	6.47	275	16.2	41	1.81	190.2	254.62	35.23	219.39
MW-23	5.97	108	16.0	143	5.94	231.7	274.83	45.96	228.87
MW-23d	5.58	145	16.2	33	4.52	242.6	274.89	46.15	228.74
MW-24	5.28	67	16.7	152	6.68	273.4	266.64	45.65	220.99
MW-27	ABANDONED						ABANDONED		
MW-28	6.06	196	16.9	55	7.49	227.2	237.89	18.20	219.69
MW-28d	6.28	252	17.4	38	5.03	197.2	238.44	17.07	221.37
MW-29d	5.97	118	16.1	15	6.25	216.7	275.06	42.58	232.48
MW-30	5.59	117	15.2	391	5.03	171.1	282.32	51.50	230.82
MW-31	5.71	138	16.7	151	6.04	149.8	261.67	33.26	228.41
MW-31d	5.90	151	16.8	87	3.21	127.1	260.92	32.70	228.22
MW-32	5.19	70	15.1	43	4.08	159.8	242.99	17.13	225.86
TB-1a	5.74	183	16.0	41	3.01	128.6	255.05	28.61	226.44
TB-1a deep	5.81	187	16.2	71	1.72	117.9	256.01	30.82	225.19
MW-33	5.67	131	14.3	303	2.41	186.2	222.01	12.47	209.54
MW-34	5.24	95	14.8	403	2.11	235.7	221.96	14.08	207.88
MW-34d	5.56	157	15.2	9	1.83	211.6	222.16	14.44	207.72
MW-35	4.71	21	14.8	128	2.68	237.5	223.48	17.19	206.29
MW-36	5.71	153	15.4	74	2.84	122.2	237.40	26.78	210.62
MW-36d	5.89	298	16.1	9	1.63	180.9	237.68	27.01	210.67
Surface Water I.D.									
SW-2	6.40	97	16.0	18	8.82	276.7			
SW-3	6.78	69	16.7	21	9.23	284.3			
SW-7	5.68	75	14.7	12	7.60	205.1			
SW-8	6.06	74	14.7	11	8.19	192.5			

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
8. uS/cm - Microsiemens per centimeter
9. mg/L - Milligrams per liter
10. ORP - Oxidation-Reduction Potential
11. NTUs - Nephelometric Turbidity Units
12. mV - Millivolts
13. S.U. - Standard Units
14. DO - Dissolved Oxygen

Table 2
Summary of Calculated Groundwater Flow Velocities
April 2012 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 I.D.	Hydraulic Conductivity feet/day (cm/s)	Effective Porosity	Gradient	Average Linear Velocity (feet/day)	Gradient	Average Linear Velocity (feet/day)	Gradient	Average Linear Velocity (feet/day)	Gradient	Average Linear Velocity (feet/day)	Gradient	Average Linear Velocity (feet/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
2. cm/s - centimeters per second
3. Hydraulic conductivity and effective porosity values are estimated from previously performed slug tests and grain size analyses.
4. The gradient and linear velocity values shown for MW-11 are based on the average of all the listed wells, with the exception of MW-36D.

Table 2
Summary of Calculated Groundwater Flow Velocities
April 2012 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 I.D.	Hydraulic Conductivity feet/day (cm/s)	Effective Porosity	Gradient	Average Linear Velocity (feet/day)	Gradient	Average Linear Velocity (feet/day)	Gradient	Average Linear Velocity (feet/day)	Gradient	Average Linear Velocity (feet/day)	Gradient	Average Linear Velocity (feet/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
2. cm/s - centimeters per second
3. Hydraulic conductivity and effective porosity values are estimated from previously performed slug tests and grain size analyses.
4. The gradient and linear velocity values shown for MW-11 are based on the average of all the listed wells, with the exception of MW-36D.

Table 2
Summary of Calculated Groundwater Flow Velocities
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

	Sampling Date:		10/25-27/2010		3/15-16/2011		10/31-11/2/2011		4/24-28/2/2012	
Monitoring Well I.D.	Hydraulic Conductivity feet/day (cm/s)	Effective Porosity	Gradient	Average Linear Velocity (feet/day)	Gradient	Average Linear Velocity (feet/day)	Gradient	Average Linear Velocity (feet/day)	Gradient	Average Linear Velocity (feet/day)
MW-5R	0.33 1.16E-04	0.18	0.0237	4.34E-02	0.0233	4.28E-02	0.0233	4.27E-02	0.0232	4.25E-02
MW-6	10.58 3.73E-03	0.13	0.0206	1.68E+00	0.0204	1.66E+00	0.0203	1.65E+00	0.0203	1.65E+00
MW-7	1.15 4.06E-04	0.18	0.0256	1.63E-01	0.0254	1.62E-01	0.0253	1.62E-01	0.0253	1.62E-01
MW-8	3.61 1.27E-03	0.18	0.0248	4.98E-01	0.0246	4.93E-01	0.0245	4.91E-01	0.0246	4.93E-01
MW-9	1.22 4.30E-04	0.30	0.0201	8.19E-02	0.0199	8.09E-02	0.0198	8.06E-02	0.0198	8.07E-02
MW-10	0.509 1.80E-04	0.05	0.0172	1.75E-01	0.0172	1.75E-01	0.0171	1.74E-01	0.0170	1.73E-01
MW-11	5.66 2.00E-03	0.13	0.0215	9.36E-01	0.0213	9.28E-01	0.0213	9.26E-01	0.0213	9.25E-01
MW-22	0.07 2.47E-05	0.18	0.0184	7.16E-03	0.0183	7.11E-03	0.0183	7.10E-03	0.0182	7.09E-03
MW-23	3.59 1.27E-03	0.30	0.0197	2.36E-01	0.0197	2.36E-01	0.0197	2.36E-01	0.0198	2.36E-01
MW-24	0.34 1.20E-04	0.30	0.0250	2.83E-02	0.0248	2.81E-02	0.0249	2.82E-02	0.0248	2.82E-02
MW-36	17.56 6.19E-03	0.30	0.0198	1.16E+00	0.0195	1.14E+00	0.0195	1.14E+00	0.0195	1.14E+00
MW-36D	0.78 2.75E-04	0.10	0.0196	1.53E-01	0.0194	1.51E-01	0.0193	1.51E-01	0.0194	1.51E-01

Notes:
1. MW-36/36D installed November 2008
2. cm/s - centimeters per second
3. Hydraulic conductivity and effective porosity values are estimated from previously performed slug tests and grain size analyses.
4. The gradient and linear velocity values shown for MW-11 are based on the average of all the listed wells, with the exception of MW-36D.

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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-11	17-Mar-11			76.7J			1.6J		3.88J							0.265J	**3.51J**	24.3
MW-11	1-Nov-11			80.7J			1.9J		6.33JB			2.14JB					**3.61J**	19.6
MW-11	25-Apr-12			65.3J					2.37J								**3.23J**	12.1
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
MW-11d	18-Mar-11	0.852J		51.2J			3.43J		4.41J								**3.73J**	8.04J
MW-11d	2-Nov-11			45.5J			2.18J		4.14JB								**2.45J**	5.86J
MW-11d	26-Apr-12	0.247J		44.2J			3.04J		9.68JB	3.31J							**2.05J**	4.62J

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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
MW-5R	16-Mar-11			95J			4.62J					3.39J				0.267J		6.9J
MW-5R	31-Oct-11			123			3.28J	**2.17J**				5.83JB	1.13J			0.152J		8.33J
MW-5R	24-Apr-12	0.411J		97.3J			2.79J					2.47J				0.170J		4.28J

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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-6	16-Mar-11			365			7.08J	**57.7**	4.66J			11.5J	2.68J	3.18J		**0.741J**		51.3
MW-6	1-Nov-11	0.229J	3.98J	454			6.35J	**65.7**	4.04JB			18.2JB	2.55J	4.11J				5.36J
MW-6	24-Apr-12	0.244J		182			3.49J	**54.9**				8.45J		2.18J		0.134J		117
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
MW-6d	16-Mar-11	0.961J		68.2J			3.05J		3.91J							**0.428J**	**3.28J**	6.94J
MW-6d	2-Nov-11	**2.63J**		100			5.42J	**1.26J**	6.46JB			4.68J					**3.98J**	13.1
MW-6d	26-Apr-12	**1.59J**		72J			5.68J		7.24JB	2.37J		2.61J					**4J**	6.97J
MW-6d (dup)	26-Apr-12	**1.22J**		66J			5.53J		6.45JB	2.10J		2.20J					**3.78J**	5.88J

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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
MW-7	16-Mar-11			51.7J		1.2	6.76J	**30.5**	4.81J			11.8J	1.42J	3.14J		**0.36J**	**1.73J**	11.8
MW-7	2-Nov-11			67.1J		0.38J	**14.9**	**31.6**	21.2B			13.4J	1.17J	3.27J			**9.74J**	44.8
MW-7	26-Apr-12			50.3J		0.805J	**13.3**	**27.1**	10.7B	4.04J		10.9J		3.63J			**7.24J**	13.9

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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-8	16-Mar-11			41.1J			2.83J		1.63J			2.22J	0.873J			0.279J	**1.65J**	6.42J
MW-8	31-Oct-11			56.5J			7.42J		4.53JB			4.95JB					**5.18J**	7.32J
MW-8	24-Apr-12	0.937J		41.3J			1.21J					3.19J					**1.83J**	515
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
MW-8d	18-Mar-11	0.512J		28.7J			5.85J		4.41J	2.19J							**5.18J**	4.47J
MW-8d	2-Nov-11	0.724J		25.0J		1.05	5.02J		5.02JB			2.00J					**4.22J**	7.28J
MW-8d	26-Apr-12	**1.63J**		34.5J					11B	2.82J							**4.15J**	7.52J

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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
MW-9	17-Mar-11			176	0.241J		7.36J	**4.82J**	2.1J	3.79J			0.841J	3.51J		**0.405J**		13.2
MW-9	1-Nov-11			209	0.425J		**14.9**	**6.79J**	8.83JB	6.37J		4.11JB	0.982J	4.52J		0.164J	**6.88J**	69.2
MW-9 (dup)	1-Nov-11			191	0.256J		**10.4**	**5.81J**	5.32JB	3.99J		3.08JB	0.874J	3.66J		0.127J	**3.26J**	50.1
MW-9	25-Apr-12			176	0.220J		5.68J	**4.81J**						2.72J				13.5

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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-10	17-Mar-11			34J	0.285J		2.22J	**1.93J**	4.17J	2.25J	0.388	2.48J				**0.352J**		14.1
MW-10	31-Oct-11			28.1J			1.72J	**1.61J**	3.56JB			3.00J		1.94J				12.8
MW-10	25-Apr-12			34.7J	0.320J	0.438J	1.79J	**2.04J**	4.81J	2.64J	0.538	2.25J						21.7
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**	
MW-10d	18-Mar-11			3.88J					2.16J									4.02J
MW-10d	2-Nov-11			3.81J			2.10J		3.18JB									4.14J
MW-10d	26-Apr-12	0.232J		4.36J			3.50J		3.47JB	4.57J								

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April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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
MW-22	18-Mar-11			40.7J	0.105J	**2.21**	4.1J	**14.8**	2.71J	3.69J		7.49J					**4.89J**	16.1
MW-22	1-Nov-11			41.2J		**7.96**	4.25J	**46.7**	5.24JB			17.2JB		2.87J			**3.22J**	43.9
MW-22	25-Apr-12			61.5J	0.224J	**4.78**	4.77J	**63.8**				14J		2.56J		0.162J	**33.1**	18.4

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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
MW-23	18-Mar-11			43.3J			5.52J		9.92J	6.42J		3.64J					**11.4J**	23.7
MW-23	2-Nov-11			43.5J			5.93J		11.0B	2.79J		4.01J					**9.10J**	14.8
MW-23	26-Apr-12			42.7J			6.68J	**1.63J**	10.4B	7.07J		4.20J					**12.5J**	17.5

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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
MW-23d	17-Mar-11	0.561J		41.7J			4.14J		4.38J				1.04J				**5.04J**	5.36J
MW-23d	1-Nov-11	0.798J		35.8J			3.92J		4.12JB								**3.75J**	10.9
MW-23d	25-Apr-12	0.754J		35J		0.746J	4.03J		16.8B	3.32J							**4.05J**	6.65J

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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
MW-24	18-Mar-11		3.98J	33J			2.17J		2.92J	3.62J			1.13J				**4.25J**	27.1
MW-24	2-Nov-11			48.8J			3.81J		6.75JB	4.69J		2.13J					**6.26J**	43.6
MW-24	26-Apr-12			57.6J	0.281J		7.54J		7.09JB	9.80J		3.35J	1.82J			0.190J	**8.38J**	58.7

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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-28	18-Mar-11			51.5J			9.81J	**1.82J**	2.29J	5.21J		2.92J	1.45J			0.179J	**14J**	40.5
MW-28	26-Apr-12			67.7J			**14.2**	**3.90J**	2.81JB	5.18J		5.84J				**0.229J**	**20.7J**	69.8
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
MW-28d	18-Mar-11			14.3J			4.17J		2.91J	2.31J		2.08J	1.59J				**4.96J**	16.8
MW-28d	26-Apr-12	**1.46J**		28.7J			**10.1**	**1.34J**	13.3B	4.99J		9.42J					**4.73J**	106

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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-29d	18-Mar-11	0.391J	3.08J	54.8J			9.57J		16.2	4.09J		4.15J					**7.4J**	15.5
MW-29d	1-Nov-11			42.7J			6.46J	**1.21J**	12.4B			2.70J					**4.25J**	17.2
MW-29d	26-Apr-12	0.317J		41.5J			6.48J		8.73JB	3.94J		1.97J					**3.72J**	23.2
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
MW-30	18-Mar-11			91.1J	0.202J		**29**	**4.25J**	37.1	8.69J		11.2J	1.12J				**27**	37.1
MW-30	1-Nov-11			147	0.302J		**47.5**	**8.80J**	69.8B	3.90J		22.2JB		3.51J		0.196J	**44**	60.8
MW-30	25-Apr-12			169	0.773J		**58**	**9.94J**	73.9	9.17J		22.7J		2.15J		**0.360J**	**51.7**	54.7

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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-31	17-Mar-11			42.6J			**14**		7.79J	4.47J		3.2J				0.255J	**9.69J**	26.3
MW-31	1-Nov-11			84.2J	0.151J		**33.3**	**2.57J**	23.9B	7.27J		13.7JB		2.66J		0.129J	**26.2**	57.9
MW-31	25-Apr-12			33.4J	0.122J		**13.1**		6.71J	3.56J	5.40J		0.904J				**9.25J**	33.1
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
MW-31d	16-Mar-11	**1.19J**		20.3J			9.86J		4.08J	2.56J			1.24J			**0.327J**	**9.46J**	30.5
MW-31d	31-Oct-11	**1.21J**		21.2J			**13.4**		34.2B			4.99JB					**10.2J**	69.6
MW-31d	24-Apr-12	**1.68J**		17.1J			6.79J		26.5			0.944J					**7.62J**	12.6

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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
MW-32	17-Mar-11			21.8J	0.145J		4.58J	**2.91J**	18.2	2.11J		3.91J				0.276J	**7.49J**	29.5
MW-32	1-Nov-11		5.75J	14.2J			3.41J	**1.47J**	10.0B			3.39J					**2.96J**	27.7
MW-32	25-Apr-12	0.393J	3.37J	15.4J	0.261J		1.92J	**2.34J**	8.49J			1.96J					**5.71J**	6.22J
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
TB-1a	17-Mar-11			32.7J			2.46J	**2.23J**	11.6	2.68J		3.14J	0.849J			0.332J	**7.45J**	16.3
TB-1a	1-Nov-11			126		**5.39**	**19.1**	**11.5**	99.3B			19.0J					**40.5**	91.8
TB-1a	25-Apr-12	0.269J		190		1.5	**29**	**22**	158	7.33J	0.348	27.9J				0.186J	**61.3**	89.4

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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
TB-1a deep	16-Mar-11	**1.19J**		14.9J			**16.7**		3.97J	2.03J		4.68J	0.946J			**0.338J**	**7.43J**	12.4
TB-1a deep	31-Oct-11	0.865J		14.2J			**22.9**		4.52JB			6.60JB	1.13J				**7.66J**	13.2
TB-1a deep	24-Apr-12	0.928J		15.5J			**15**		11.5			3.87J	1.23J				**6.58J**	8.41J
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**	**1,165**
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-33	16-Mar-11			66.9J			**21.1**	**5.46J**	14.9	4.04J		7.61J				**0.298J**	**29**	45.9
MW-33	25-Apr-12			112	0.208J		**44.4**	**15.1**	37	6.44J		20.2J	0.917J				**72.1**	102
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			**1,108**	**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
MW-34	17-Mar-11			238	2.19		**37.2**	**8.32J**	46.3	13.7		24.9J		2.47J		0.254J	**72**	94.5
MW-34	26-Apr-12	0.261J		184	1.27		**25.4**	**4.77J**	23.8B	8.3J	0.255	13.2J					**37.4**	53.7

Table 3a
Detected Groundwater Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
North Carolina 2L Standard		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.2***	**0.3***	**1,000**
Solid Waste Section Limit		**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-34d	16-Mar-11	0.351J		33.2J			9.87J		8.59J	2.06J			0.946J			0.209J	**1.83J**	11.2
MW-34d	25-Apr-12	0.575J		32.5J			8.02J		5.86JB	2.66J							**1.57J**	7.83J
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			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-35	17-Mar-11			52.9J	0.536J		5.36J	**2.04J**	7.03J	2.33J		3.08J				0.192J	**10.2J**	23.2
MW-35	25-Apr-12			51.3J	0.616J		3.96J	**2.36J**	5.67J			3.10J					**11.3J**	17.8
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-36	17-Mar-11			69.7J			**10.4**	**2.66J**	9.6J	2.28J		4.16J	0.962J			**0.282J**	**10.7JB**	13.8
MW-36	1-Nov-11			74.6J			**12.1**	**3.63J**	14.7B			7.15JB					**14.8J**	31.8
MW-36	25-Apr-12			64.7J			7.90J	**2.61J**	9.44J			4.33J					**12.5J**	12.1
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
MW-36d	18-Mar-11			98.4J			**32.3**	**2J**	32.5	4.8J		15.5J	1.73J				**29.3**	17.8
MW-36d (dup)	18-Mar-11			88.4J			**27.1**	**1.35J**	27.3	2.51J		12.7	0.845J				**24.5J**	14.2
MW-36d	2-Nov-11			60.3J			**10.2**		12.0B			6.22J					**11.1J**	5.45J
MW-36d	26-Apr-12			53.7J			2.26J		10.5B	2.44J		2.23J		2.20J			**4.59J**	

Notes:

All units are in micrograms per liter (parts per billion)

- Concentration exceeds N.C. 2L Groundwater Standard or Groundwater Protection Standard

- 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

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
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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																																						
MW-11	17-Mar-11																																						
MW-11	1-Nov-11																																						
MW-11	25-Apr-12																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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																																						
MW-11d	18-Mar-11																																						
MW-11d	2-Nov-11																																						
MW-11d	26-Apr-12																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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																											
MW-5R	16-Mar-11											2.1																											
MW-5R	31-Oct-11																																						
MW-5R	24-Apr-12																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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																					
MW-6	16-Mar-11		3.4					1.3J				1.6			0.42J			1.3J															1.8						
MW-6	1-Nov-11		3.6					1.1J				1.7			1.0J			0.95J																					
MW-6	24-Apr-12		0.7J					0.5J				0.5J						0.42J															0.56J						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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								
MW-6d	16-Mar-11													0.91J	3.2J								0.49J																
MW-6d	2-Nov-11									0.72J				1.5J	3.4J								0.43J																
MW-6d	26-Apr-12									0.61J				0.53J	2.3J												0.40J			0.42J									
MW-6d (dup)	26-Apr-12									0.58J					2.3J															0.43J									

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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					
MW-7	16-Mar-11		**1.8**									1.6						0.74J															**1.5**						
MW-7	2-Nov-11	7.6J	**1.3**									1.6																					**1.4**						
MW-7	26-Apr-12	120	0.66J									0.79J																					**0.49J**						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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									
MW-8	16-Mar-11														0.61J			17																					
MW-8	31-Oct-11														0.66J			14																					
MW-8	24-Apr-12														0.75J			23																					

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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																													
MW-8d	18-Mar-11																																						
MW-8d	2-Nov-11																																						
MW-8d	26-Apr-12									0.42J																													

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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					
MW-9	17-Mar-11		1.1									6			12	0.92J		13		0.61J													14						
MW-9	1-Nov-11		1.3									5.9			11			11															12						
MW-9 (dup)	1-Nov-11	6.1J	1.0						1.3J			5.9			10			12															10						
MW-9	25-Apr-12		1.8									8.1			9.8			15		0.68J	0.54J									0.47J			19						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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						
MW-10	17-Mar-11		3.3									1.1			4.2J			48									2.5			2.6			1.6						
MW-10	31-Oct-11		3.2						1.4J			0.90J			4.9J			42									2.9			2.6			1.3						
MW-10	25-Apr-12	10J	2.3									1			3.2J			44									2.9			2.5			1.4						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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-10d	18-Mar-11														2J								1																
MW-10d	2-Nov-11														2.2J								0.92J																
MW-10d	26-Apr-12													0.70J	2.2J			0.60J									0.52J			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												
MW-22	18-Mar-11									0.79J																													
MW-22	1-Nov-11																																						
MW-22	25-Apr-12																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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																																						
MW-23	18-Mar-11																																						
MW-23	2-Nov-11																																						
MW-23	23-Apr-12																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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																																						
MW-23d	17-Mar-11																																						
MW-23d	1-Nov-11																																						
MW-23d	25-Apr-12																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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-24	18-Mar-11									13																													
MW-24	2-Nov-11									8.9																													
MW-24	26-Apr-12									7.3																													
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
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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-28	18-Mar-11																																						
MW-28	26-Apr-12									0.53J																													
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																																						
MW-28d	18-Mar-11																																						
MW-28d	26-Apr-12	19J																																					

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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																																						
MW-29d	18-Mar-11																																		1.8J				
MW-29d	1-Nov-11																																						
MW-29d	26-Apr-12																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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																													
MW-30	18-Mar-11																																						
MW-30	1-Nov-11																																						
MW-30	25-Apr-12																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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																													
MW-31	17-Mar-11									2.5J																													
MW-31	1-Nov-11									2.1J																													
MW-31	25-Apr-12									1.3J																													

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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																													
MW-31d	16-Mar-11									28																													
MW-31d	31-Oct-11									23																													
MW-31d	24-Apr-12									23																													

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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																																						
MW-32	17-Mar-11																																						
MW-32	1-Nov-11																																						
MW-32	25-Apr-12																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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	17-Mar-11									2.5J																													
TB-1a	1-Nov-11									1.6J																													
TB-1a	25-Apr-12									0.9J																													

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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 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																													
TB-1a deep	16-Mar-11									31																													
TB-1a deep	31-Oct-11									31																													
TB-1a deep	24-Apr-12									23																													
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-33	16-Mar-11																																						
MW-33	25-Apr-12																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		**6000**	**1**	**0.6**	**10**	**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**
Solid Waste Section Limit		**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-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-34	17-Mar-11											0.89J			**10**			11					**11**				**2.2**			**3.4**									
MW-34	26-Apr-12		0.60J						0.62J	0.60J		1.2		1.8J	**14**			9					**7.6**				**2.2**			**3.3**	0.92J								
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									
MW-34d	16-Mar-11														1.7J			1.6J					0.43J																
MW-34d	25-Apr-12														0.77J			0.93J																					

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring 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
North Carolina 2L Standard		6000	1	0.6	10	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
Solid Waste Section Limit		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-35	17-Mar-11																																						
MW-35	25-Apr-12																																						
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-36	17-Mar-11											1.1			**9.1**			6.3					0.47J							1.7			**0.8J**						
MW-36	1-Nov-11											0.86J			**8.9**			4.3J												1.1									
MW-36	25-Apr-12														5.5			3.3J												0.74J									
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									
MW-36d	18-Mar-11													1.4J	**8.8**			5.2					1				**1.0**			1.7									
MW-36d (dup)	18-Mar-11													1.2J	**8.9**			5.1					1.1				**1.1**			1.7									
MW-36d	2-Nov-11													1.4J	**9.2**			4.0J					0.89J				**1.0**			1.4									
MW-36d	26-Apr-12											0.53J		1.4J	**8**			4.0J									**0.86J**			1.3									

Notes:

All units are in micrograms per liter (parts per billion)

- Concentration exceeds N.C. 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 Surface Water Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Surface Water Sample Location	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
North Carolina 2B Standard		**10***	**1,000**	**6.5**	**2**	**50**	**NE**	**7****	**25**	**88**	**5**	**0.06****	**NE**	**NE**	**50****
Solid Waste Section Limit		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**50**	**10**	**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-2	17-Mar-11		41J					1.72J	2.27J				0.194J		
SW-2	1-Nov-11		77.1J			9.49J	5.46J	**14.1B**	4.12J	5.20JB		**2.35J**		22.0J	25.7
SW-2	26-Apr-12		33.6J					1.95J						2.03J	
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
SW-3	17-Mar-11		31.7J						1.97J				0.231J	1.86J	
SW-3	1-Nov-11		33.4J			2.11J		5.21JB		2.22JB				4.06J	6.46J
SW-3	26-Apr-12		29.35J			1.63J		2.37J						3.87J	4.22J

Table 3c
Detected Surface Water Constituents - Metals
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Surface Water Sample Location	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
North Carolina 2B Standard		**10***	**1,000**	**6.5**	**2**	**50**	**NE**	**7****	**25**	**88**	**5**	**0.06****	**NE**	**NE**	**50****
Solid Waste Section Limit		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**50**	**10**	**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-7	18-Mar-11		30.9J								0.976J		0.188J		
SW-7	1-Nov-11		26.3J			1.19J		3.78JB		1.99JB					
SW-7	26-Apr-12		23.4J											1.63J	
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	
SW-8	18-Mar-11		28J								0.947J		0.128J		
SW-8	1-Nov-11		24.8J			1.10J		5.18JB							
SW-8	26-Apr-12	3.67J	21.7J					1.79J						1.54J	

Notes:

All units are in micrograms per liter (parts per billion)

- Concentration exceeds N.C. 2B Surface Water Standard for Class C Waters, Human Health Standard, or Action Level Standard

- 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 3d
Detected Surface Water Constituents - Volatile Organic Compounds
April 2012 Semi-Annula Sampling Event
North Wake Unlined Landfill

Surface Water Sample Location	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
North Carolina 2B Standard		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	3.3*	11	NE
Solid Waste Section Limit		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-2	17-Mar-11														
SW-2	1-Nov-11														
SW-2	26-Apr-12														
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-3	17-Mar-11														
SW-3	1-Nov-11														
SW-3	26-Apr-12														
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-7	18-Mar-11										0.52J				
SW-7	1-Nov-11														
SW-7	26-Apr-12														
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														
SW-8	18-Mar-11														
SW-8	1-Nov-11														
SW-8	26-Apr-12														

Notes:

All units are in micrograms per liter (parts per billion)

- Concentration exceeds N.C. 2B Surface Water Standard for Class C Waters or Human Health Standard

- 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

Table 4
Constiuents Exceeding Standards
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

MONITORING WELL I.D.	APRIL 2012 PARAMETERS EXCEEDING THE NORTH CAROLINA 2L OR GROUNDWATER PROTECTION STANDARDS	MONITORING WELL I.D.	APRIL 2012 PARAMETERS EXCEEDING THE NORTH CAROLINA 2L OR GROUNDWATER PROTECTION STANDARDS
MW-11	**Vanadium***	MW-28	Chromium, **Cobalt*, Thallium*, Vanadium***
MW-11d	**Vanadium***	MW-28d	**Antimony*,** Chromium, **Cobalt*, Vanadium***
MW-5R	None	MW-29d	**Vanadium***
MW-6	Cobalt*, **Vinyl Chloride**	MW-30	Chromium, **Cobalt*, Thallium*,** Vanadium*
MW-6d	**Antimony***, **Vanadium***	MW-31	Chromium, **Vanadium***
MW-7	Chromium, Cobalt*, **Vanadium*, Vinyl Chloride**	MW-31d	**Antimony***, **Vanadium***
MW-8	**Vanadium***	MW-32	**Cobalt***, **Vanadium***
MW-8d	**Antimony***, **Vanadium***	TB-1a	Chromium, Cobalt*, Vanadium*
MW-9	**Cobalt***, Benzene, 1,4-Dichlorobenzene, 1,1-Dichloroethane, **1,2-Dichloropropane**, Vinyl Chloride	TB-1a deep	Chromium, **Vanadium***
MW-10	**Cobalt***, Benzene, Tetrachloroethene, Vinyl Chloride	MW-33	Chromium, Cobalt*, Vanadium*
MW-10d	None	MW-34	Chromium, **Cobalt***, Vanadium*, 1,1-Dichloroethane, Methylene Chloride, Tetrachloroethene, Trichloroethene
MW-22	Cadmium, Cobalt*, Vanadium*	MW-34d	**Vanadium***
MW-23	**Cobalt*, Vanadium***	MW-35	**Cobalt*, Vanadium***
MW-23d	**Vanadium***	MW-36	**Chromium, Cobalt*, Vanadium*,**
MW-24	**Vanadium***	MW-36d	**Vanadium***, 1,1-Dichloroethane, Tetrachloroethene

Notes:
* - Groundwater Protection Standard
Bold - Indicates a J value detection in which the analytical result is an estimated concentration betweer
the method detection limit and the Solid Waste Section Limit
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
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Oxidation-Reduction Potential (millivolts)	pH (Standard Units)	Dissolved Oxygen	Biochemical Oxygen Demand	Chemical Oxygen Demand	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	Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nanomoles)
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	742.0	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-11	17-Mar-11	211.2	5.21	8.02	<2	17	0.52J	<2	<2	5B	0.6J	0.53J	32		2.1J		<0.1		67.6	<0.05	<0.5	<0.5		<0.5		<0.5	<0.5	
MW-11	1-Nov-11	161.6	5.62	5.89	3.20	<10	<1	<2	<3	4.1JB	0.71J	0.35J	25		2.2J		<0.1		164	<0.05	0.8	<0.07		0.077J		0.16	<0.07	
MW-11	25-Apr-12	112.2	5.47	6.22	<2	<10	<0.43	<0.2	<0.54	3.1J	0.086J	0.76J	22		1.7J		<0.01		161D	<0.046	<0.04	<0.24	<0.87	0.13J	<0.048	<0.057	<0.061	
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	154.0	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
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Oxidation-Reduction Potential (millivolts)	pH (Standard Units)	Dissolved Oxygen	Biochemical Oxygen Demand	Chemical Oxygen Demand	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	Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nanomoles)
MW-5	3-Dec-98		5.70							5.6																		
MW-5	20-Dec-00	38.0	5.40				4,500			13.4	0.07	2.7							141									
MW-5	16-Apr-01	85.4	5.20							8.5		8.8			6.8				141	1.07								1.07
MW-5	3-Dec-01	102.8	5.68				1,600			5.2					1.7				79.2									
MW-5	12-Apr-02	42.8	5.54				2,400			3.3					4.1				44	3.7								3.7
MW-5	5-Nov-02	64.6	5.72				1,500			8.7	0.34	1.2			4.7				244									
MW-5	17-Apr-03	-138.4	6.08	0.79			6,600			13		13.7			4.1				9									
MW-5	4-Nov-03	-142.0	5.60	0.14			3,200			19		1474							2055	18.5								18.5
MW-5R	14-Apr-04	-35.4	6.30	1.92			4,040			8.19		13.8			0.444		0.08		286									
MW-5R	21-May-08	94.8	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	113.0	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	61.3	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	272.4	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	76.2	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	-64.3	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-5R	16-Mar-11	141.9	5.94	1.89	<2	<10	1.60	<2	<2	3.8JB	0.53J	0.92J	250D		8.3J		<0.1		164	<0.05	<0.5	<0.5		<0.5		<0.5	<0.5	2.7
MW-5R	31-Oct-11	156.8	5.71	0.75	<2	<10	3.88	<2	<3	2.7JB	12.0	1.4	110D		3.9J		<0.1		335 D	0.140	0.51	<0.07		0.11J		<0.07	<0.07	1.9
MW-5R	24-Apr-12	192.5	5.72	1.48	<2	<10	<0.43	<0.2	<0.54	2.2J	10.0	1.1	110		3.4J		<0.01		321D	<0.046	<0.04	<0.24	<0.87	<0.62	<0.048	<0.057	<0.061	2.4
MW-6	3-Dec-98		5.71							6.8																		
MW-6	19-Dec-00	156.0	5.54				669			9.12	0.05	5.9							57									
MW-6	16-Apr-01	96.5	5.05				450			7.5		7.7			0.66				47									
MW-6	3-Dec-01	136.3	5.88				470			6.4					0.34				30.8									
MW-6	12-Apr-02	173.6	5.47				800			7.3					0.46				35									
MW-6	5-Nov-02	73.2	5.58				1,500			11	0.36	2.1			0.74				83									
MW-6	17-Apr-03	234.4	5.79	0.59			2,400			12	0.48	10.4			0.47				9									
MW-6	4-Nov-03	41.0	4.80	0.25			640			110		8.5			1.2				185									
MW-6	14-Apr-04	316.4	5.76	1.70			1,450			190		16.6			2.2				330									
MW-6	20-May-08	115.0	5.94	2.41	<4	78	2,740	<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	84.0	6.14	1.36	2	106	1,190	<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	59.1	5.81	0.46	3	86	1,810	<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	90.1	6.23	1.44	2	72	1,560	<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	91.2	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
MW-6	16-Mar-11	25.3	5.89	2.48	<2	75	899	<2	<2	140BD	0.029J	14	500D		6.3J		<0.1		349D	0.77	<0.5	<0.5		<0.5		18	<0.5	2.2
MW-6	1-Nov-11	10.6	6.09	1.34	<2	94	4,600	<2	<3	170BD	0.053J	22	600D		12J		<0.1		820D	1.50	<0.07	8.7		<0.14		34	<0.07	1.9
MW-6	24-Apr-12	168.6	5.85	2.14	<2	32	5,660D	<0.2	<0.54	97	0.25J	4.4	190D		3.5J		<0.01		549D	<0.046	<0.04	<0.24	<0.87	<0.62	0.56	1.7	<0.061	2.6

Table 5
Geochemical Data
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Oxidation-Reduction Potential (millivolts)	pH (Standard Units)	Dissolved Oxygen	Biochemical Oxygen Demand	Chemical Oxygen Demand	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	Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nanomoles)
MW-8	3-Dec-98		5.75							7.3																		
MW-8	20-Dec-00	66.0	5.42							6.84	0.09	5.9							22									
MW-8	16-Apr-01	53.6	5.61				17			3.2	0.23	1.3			0.89		0.04		32									
MW-8	3-Dec-01	111.4	6.40							3					0.61		0.01		39.6									
MW-8	12-Apr-02	50.7	6.00				42			3.5					0.81				31									
MW-8	5-Nov-02	43.8	6.05				11			3.4	0.42	0.7			1.1		0.06		29									
MW-8	17-Apr-03	171.4	6.30	1.70						4	0.33	2.3			1.1				13									
MW-8	4-Nov-03	127.0	5.15	1.68			22			3.9		0.7			1				44									
MW-8	14-Apr-04	234.9	5.86	1.58			371			3.82		2.2			0.912				52.8									
MW-8	20-May-08	62.9	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	55.0	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	27.1	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	82.5	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	88.2	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	-72.2	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-8	16-Mar-11	208.4	5.49	1.28	<2	<10	600	<2	<2	9.5B	0.12J	<1	68		2.8J		<0.1		148	<0.05	<0.5	<0.5		<0.5		<0.5	<0.5	2.2
MW-8	31-Oct-11	138.1	5.61	0.65	<2	11	1,750	<2	<3	7.8B	0.12J	0.84J	68		2.5J		<0.1		273D	0.130	0.99	<0.07		<0.14		0.33	<0.07	1.7
MW-8	24-Apr-12	161.7	5.64	1.67	<2	<10	1,870D	<0.2	<0.54	12	0.19J	0.95J	74		2.6J		<0.01		324D	<0.046	<0.04	<0.24	<0.87	<0.62	<0.048	<0.057	<0.061	2.0
MW-9	3-Dec-98		6.27							15																		
MW-9	20-Dec-00	102.0	4.79				3,340			21.9	0.09	12.3							176									
MW-9	16-Apr-01	63.6	5.79				790			19	0.24	5.5			0.75				121	1.28								1.28
MW-9	3-Dec-01	21.1	6.41				2,700			24					0.38				123	2.5								2.5
MW-9	12-Apr-02	76.8	6.11				1,200			29					0.32				136	9.8								9.8
MW-9	5-Nov-02	38.6	6.16				470			24		5.7			0.66				236	1.67								1.67
MW-9	17-Apr-03	-106.2	6.39	0.25			1,900			36		30.3			0.42				44	6.3								6.3
MW-9	4-Nov-03	-110.0	5.76	0.14			1,800			53		14.2			0.46				312	1.48								1.48
MW-9	14-Apr-04	57.6	6.33	0.81			3,500			92.5		13.3			0.386				299.2	ND								ND
MW-9	20-May-08	-97.3	6.28	1.39	7	10	2,980	<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	-37.0	6.18	2.45	7	27	1,910	<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	-8.9	6.03	2.07	<2	46	1,730	<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	-7.3	6.38	1.52	<2	44	1,740	<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	37.6	6.19	2.20	<2	66	1,150	<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	-71.2	6.30	3.54	<2	53	1,330	<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	
MW-9	17-Mar-11	2.4	5.78	2.29	3	68	438	2.27	<2	18B	0.1J	5.8	220D		2.7J		<0.1		231D	7.7	<0.5	<0.5		<0.5		1.8	<0.5	
MW-9	1-Nov-11	6.3	5.95	1.94	<2	53	1,080	<2	<3	15B	0.075J	4.4	210D		2.9J		<0.1		414D	1.3	0.86	<0.07		<0.14		1.5	<0.07	
MW-9	25-Apr-12	94.8	5.95	3.11	5.4	34	2,810D	<0.2	1.59J	18	0.079J	6.1	250D		2.8J		<0.01		503D	7.8	<0.04	<0.24	<0.87	<0.62	<0.048	1.7	<0.061	

Table 5
Geochemical Data
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Oxidation-Reduction Potential (millivolts)	pH (Standard Units)	Dissolved Oxygen	Biochemical Oxygen Demand	Chemical Oxygen Demand	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	Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nanomoles)
MW-10	3-Dec-98		5.85							6.8																		
MW-10	20-Dec-00	76.0	5.27				372			10.6	1.5	3.7							26									
MW-10	17-Apr-01	80.6	5.24				320			5.4	2.2	5.3			1.2				101									
MW-10	3-Dec-01	146.3	5.88							4.2	1.6				3				35.2									
MW-10	12-Apr-02	97.9	5.58				300			4.9					1.7				35									
MW-10	5-Nov-02	74.3	5.54				770			5.4	2	1.8			2.9		0.03		216									
MW-10	17-Apr-03	239.8	5.11	0.44			2,400			5	1.4	9.2			0.82				13									
MW-10	4-Nov-03	90.0	4.90	0.16						6.6	1	1.7			0.66				145									
MW-10	14-Apr-04	349.0	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	1,950	<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	5,890	<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	2,310	<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	3,110	<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	1,830	<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	2,620	<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-10	17-Mar-11	119.7	5.29	3.18	<2	<10	2,000	<2	<2	4.3JB	0.039J	2.7	130		2.4J		<0.1		399D	0.26	<0.5	<0.5		<0.5		<0.5	<0.5	
MW-10	31-Oct-11	120.1	5.41	2.12	<2	15	9,630	<2	<3	3.6JB	<0.1	1.1	130		2.4J		<0.1		777D	0.47	0.99	<0.07		0.12J		0.22	<0.07	
MW-10	25-Apr-12	127.9	5.41	2.62	<2	10	10,300D	<0.2	<0.54	3.5J	<0.025	3.3	120		3.1J		<0.01		832D	0.17	0.26	<0.24	0.59	0.17	<0.048	<0.057	<0.061	
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	67.0	5.61				4,410			8.25	0.08	2.5							101									
MW-24	16-Apr-01	92.5	5.20				2,500			4.2	0.28	5			0.59				121	1.18								1.18
MW-24	3-Dec-01	102.8	5.83				2,100			2.9									52.8	0.3								0.3
MW-24	12-Apr-02	16.9	5.59				1,800			1.5									92	0.6								0.6
MW-24	5-Nov-02	62.1	5.76				2,200			0.56		1.6			0.48		0.01		171	0.21								0.21
MW-24	17-Apr-03	9.5	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	178.0	6.29	2.09			139			2.94		6.2			0.42				88									
MW-24	20-May-08	100.9	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
April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitoring Well	Sample Date	Oxidation-Reduction Potential (millivolts)	pH (Standard Units)	Dissolved Oxygen	Biochemical Oxygen Demand	Chemical Oxygen Demand	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	Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nanomoles)
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	63.0	5.52				2,470			6.6	0.09	3.3							62									
TB-1a	17-Apr-01	78.3	5.63				1,500			5.1	0.29	2.4			0.58		0.1		99									
TB-1a	3-Dec-01	111.2	6.01							3.1									52.8									
TB-1a	12-Apr-02	41.8	5.70				990			1.6									84									
TB-1a	5-Nov-02	58.0	5.83				400			4.2		0.7			0.47				138									
TB-1a	17-Apr-03	162.6	5.82	0.54			17			6.1	0.79	8.5			0.82		0.03		4									
TB-1a	4-Nov-03	1.0	5.04	0.16						7.5		1.6			0.46				213									
TB-1a	14-Apr-04	256.6	5.36	0.94						8.47		4.8			0.577				101.2									
TB-1a	20-May-08	-102.1	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	65.0	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	-43.6	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	88.1	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	160.9	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	-17.9	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	
MW-36	17-Mar-11	99.4	5.45	2.36	<2	38	44	<2	<2	7.2B	0.67J	1.5	84		4.6J		<0.1		140	<0.25	<0.5	<0.5		<0.5		<0.5	<0.5	
MW-36	1-Nov-11	129.6	5.66	1.96	<2	36	618	<2	<3	6.4B	0.51J	0.8J	62		4.4J		<0.1		242D	0.052	0.99	<0.07		<0.14		0.21	<0.07	
MW-36	25-Apr-12	122.2	5.71	2.84	5.2	29	186D	<0.2	<0.54	5.9	0.5J	1.1	60		3.9J		<0.01		336D	<0.046	<0.04	<0.24	<0.87	0.073J	<0.048	<0.057	<0.061	

Notes:

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

ug/L - micorgrams per liter (parts per billion)

CaCO3 - Calcium Carbonate

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

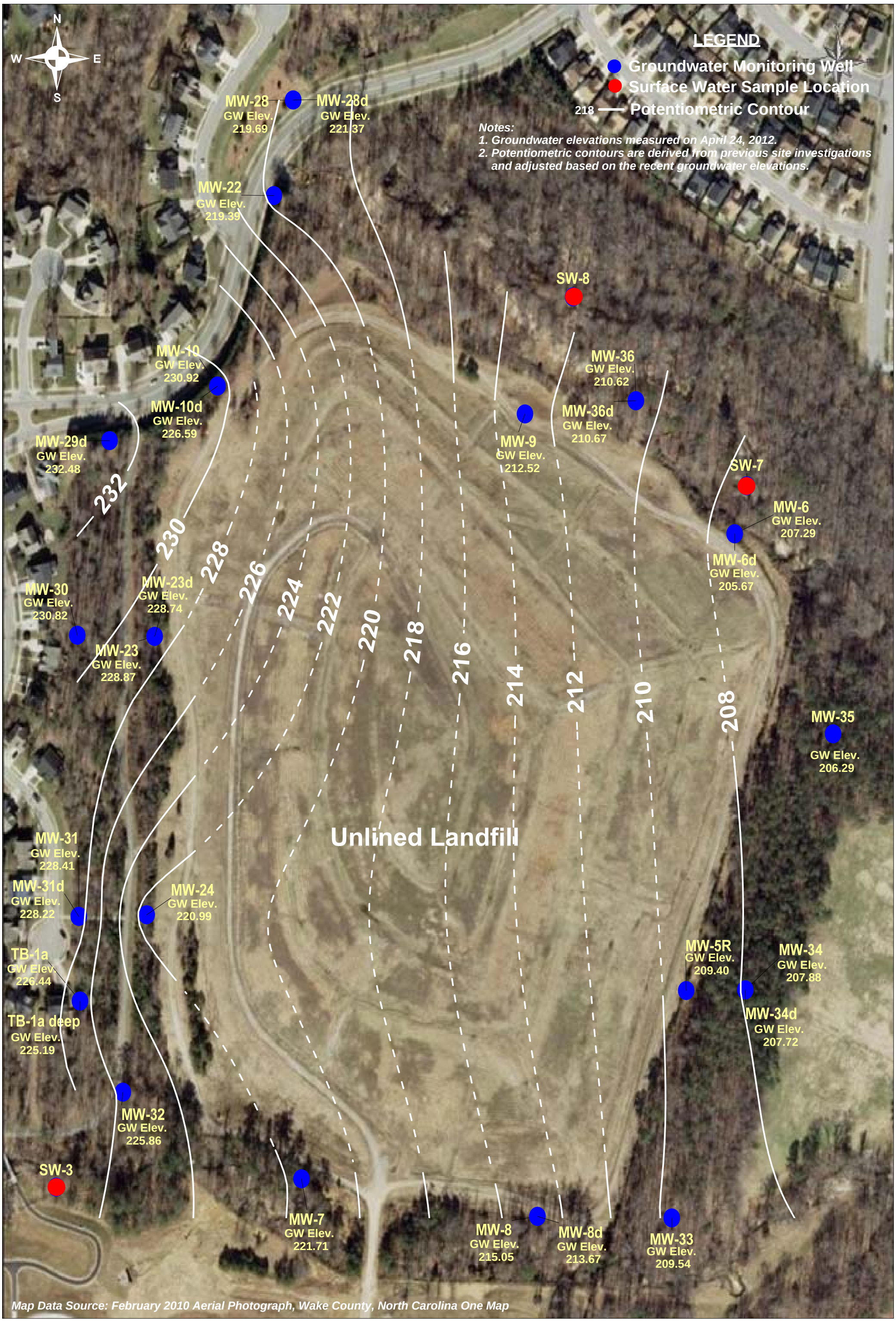
- Blank cells indicate no data collected, except for hexanoic and pentanoic acid. These acids were initially detected in April 2012.

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

B - Indicates that the amount detected in the method blank was greater than the Method Detection Limit

D - Analyzed at dilution.

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



CDM Smith

Scale in Feet

0 100 200

Figure 1: Potentiometric Surface Map

April 2012 Semi-Annual Sampling Event
North Wake Unlined Landfill
Raleigh, North Carolina

Appendix A

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

Thursday, May 10, 2012

CDM Smith, Inc. (CD004)

Attn: Dan Forbes

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(s): C203990

Dear Dan Forbes,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, April 26, 2012.

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.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 9209-SW2 **Lab ID: C203990-01** **Sampled: 04/26/12 10:50** **Received: 04/26/12 13:20**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/23/12	04/27/12 08:17	4/30/2012 13:13
EPA 6020A	10/23/12	05/01/12 08:28	5/3/2012 13:26
EPA 8260B	05/10/12	05/07/12 11:58	5/7/2012 23:21

Client ID: 9209-SW3 **Lab ID: C203990-02** **Sampled: 04/26/12 11:30** **Received: 04/26/12 13:20**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/23/12	04/27/12 08:17	4/30/2012 13:21
EPA 6020A	10/23/12	05/01/12 08:28	5/3/2012 13:30
EPA 8260B	05/10/12	05/07/12 11:58	5/7/2012 23:51

Client ID: 9209-SW7 **Lab ID: C203990-03** **Sampled: 04/26/12 09:15** **Received: 04/26/12 13:20**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/23/12	04/27/12 08:17	4/30/2012 13:23
EPA 6020A	10/23/12	05/01/12 08:28	5/3/2012 13:34
EPA 8260B	05/10/12	05/07/12 11:58	5/8/2012 00:20

Client ID: 9209-SW8 **Lab ID: C203990-04** **Sampled: 04/26/12 09:00** **Received: 04/26/12 13:20**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/23/12	04/27/12 08:17	4/30/2012 13:25
EPA 6020A	10/23/12	05/01/12 08:28	5/3/2012 13:38
EPA 8260B	05/10/12	05/07/12 11:58	5/8/2012 00:50

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 9209-SW2 **Lab ID: C203990-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	33.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Total	1.95	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	2.03	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 9209-SW3 **Lab ID: C203990-02**

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	
Chromium - Total	1.63	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.37	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.87	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	4.22	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-SW7 **Lab ID: C203990-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	23.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Vanadium - Total	1.63	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 9209-SW8 **Lab ID: C203990-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	3.67	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	21.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Total	1.79	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	1.54	J	1	1.40	10.0	25	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 9209-SW2 **Lab Sample ID:** C203990-01 **Received:** 04/26/12 13:20

Matrix: Surface Water **Sampled:** 04/26/12 10:50 **Work Order:** C203990

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/07/12 23:21	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/07/12 23:21	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/07/12 23:21	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/07/12 23:21	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/07/12 23:21	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/07/12 23:21	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/07/12 23:21	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/07/12 23:21	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/07/12 23:21	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/07/12 23:21	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/07/12 23:21	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/07/12 23:21	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/07/12 23:21	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/07/12 23:21	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/07/12 23:21	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/07/12 23:21	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/07/12 23:21	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/07/12 23:21	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/07/12 23:21	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/07/12 23:21	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/07/12 23:21	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/07/12 23:21	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/07/12 23:21	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/07/12 23:21	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/07/12 23:21	JKG	

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Description: 9209-SW2 | **Lab Sample ID:** C203990-01 | **Received:** 04/26/12 13:20

Matrix: Surface Water | **Sampled:** 04/26/12 10:50 | **Work Order:** C203990

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
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/07/12 23:21	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/07/12 23:21	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/07/12 23:21	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*51-122*	*2E07018*	*EPA 8260B*	*05/07/12 23:21*	*JKG*	
Dibromofluoromethane	*40*	*1*	*50.0*	*80 %*	*68-117*	*2E07018*	*EPA 8260B*	*05/07/12 23:21*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*67-127*	*2E07018*	*EPA 8260B*	*05/07/12 23:21*	*JKG*	

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Description: 9209-SW2 | **Lab Sample ID:** C203990-01 | **Received:** 04/26/12 13:20

Matrix: Surface Water | **Sampled:** 04/26/12 10:50 | **Work Order:** C203990

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	05/03/12 13:26	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/30/12 13:13	JDH	
Barium [7440-39-3] ^	**33.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/30/12 13:13	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/30/12 13:13	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/30/12 13:13	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/30/12 13:13	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/30/12 13:13	JDH	
Copper [7440-50-8] ^	**1.95**	J	ug/L	1	1.60	10.0	10	EPA 6010C	04/30/12 13:13	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/30/12 13:13	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/30/12 13:13	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/12 13:26	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/30/12 13:13	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/12 13:26	VLO	
Vanadium [7440-62-2] ^	**2.03**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/30/12 13:13	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	04/30/12 13:13	JDH	

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

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Description: 9209-SW3 | **Lab Sample ID:** C203990-02 | **Received:** 04/26/12 13:20

Matrix: Surface Water | **Sampled:** 04/26/12 11:30 | **Work Order:** C203990

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/07/12 23:51	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/07/12 23:51	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/07/12 23:51	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/07/12 23:51	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/07/12 23:51	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/07/12 23:51	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/07/12 23:51	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/07/12 23:51	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/07/12 23:51	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/07/12 23:51	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/07/12 23:51	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/07/12 23:51	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/07/12 23:51	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/07/12 23:51	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/07/12 23:51	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/07/12 23:51	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/07/12 23:51	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/07/12 23:51	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/07/12 23:51	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/07/12 23:51	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/07/12 23:51	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/07/12 23:51	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/07/12 23:51	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/07/12 23:51	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/07/12 23:51	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/07/12 23:51	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/07/12 23:51	JKG	

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Description: 9209-SW3
Matrix: Surface Water
Project: N Wake Unlined Surface Waters

Lab Sample ID: C203990-02
Sampled: 04/26/12 11:30
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C203990

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/07/12 23:51	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*51-122*	*2E07018*	*EPA 8260B*	*05/07/12 23:51*	*JKG*	
Dibromofluoromethane	*40*	*1*	*50.0*	*80 %*	*68-117*	*2E07018*	*EPA 8260B*	*05/07/12 23:51*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*67-127*	*2E07018*	*EPA 8260B*	*05/07/12 23:51*	*JKG*	

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Description: 9209-SW3 | **Lab Sample ID:** C203990-02 | **Received:** 04/26/12 13:20

Matrix: Surface Water | **Sampled:** 04/26/12 11:30 | **Work Order:** C203990

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	05/03/12 13:30	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/30/12 13:21	JDH	
Barium [7440-39-3] ^	**29.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/30/12 13:21	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/30/12 13:21	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/30/12 13:21	JDH	
Chromium [7440-47-3] ^	**1.63**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/30/12 13:21	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/30/12 13:21	JDH	
Copper [7440-50-8] ^	**2.37**	J	ug/L	1	1.60	10.0	10	EPA 6010C	04/30/12 13:21	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/30/12 13:21	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/30/12 13:21	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/12 13:30	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/30/12 13:21	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/12 13:30	VLO	
Vanadium [7440-62-2] ^	**3.87**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/30/12 13:21	JDH	
Zinc [7440-66-6] ^	**4.22**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/30/12 13:21	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-SW7 | **Lab Sample ID:** C203990-03 | **Received:** 04/26/12 13:20

Matrix: Surface Water | **Sampled:** 04/26/12 09:15 | **Work Order:** C203990

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/08/12 00:20	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/08/12 00:20	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/08/12 00:20	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 00:20	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/08/12 00:20	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/08/12 00:20	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/08/12 00:20	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/08/12 00:20	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/08/12 00:20	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/08/12 00:20	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/08/12 00:20	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/08/12 00:20	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/08/12 00:20	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 00:20	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/08/12 00:20	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 00:20	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/08/12 00:20	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/08/12 00:20	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 00:20	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 00:20	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/08/12 00:20	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/08/12 00:20	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 00:20	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/08/12 00:20	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/08/12 00:20	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/08/12 00:20	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/08/12 00:20	JKG	

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Description: 9209-SW7
Matrix: Surface Water
Project: N Wake Unlined Surface Waters

Lab Sample ID: C203990-03
Sampled: 04/26/12 09:15
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C203990

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/08/12 00:20	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*110 %*	*51-122*	*2E07018*	*EPA 8260B*	*05/08/12 00:20*	*JKG*	
Dibromofluoromethane	*39*	*1*	*50.0*	*78 %*	*68-117*	*2E07018*	*EPA 8260B*	*05/08/12 00:20*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*67-127*	*2E07018*	*EPA 8260B*	*05/08/12 00:20*	*JKG*	

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Description: 9209-SW7 | **Lab Sample ID:** C203990-03 | **Received:** 04/26/12 13:20

Matrix: Surface Water | **Sampled:** 04/26/12 09:15 | **Work Order:** C203990

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	05/03/12 13:34	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/30/12 13:23	JDH	
Barium [7440-39-3] ^	**23.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/30/12 13:23	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/30/12 13:23	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/30/12 13:23	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/30/12 13:23	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/30/12 13:23	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/30/12 13:23	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/30/12 13:23	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/30/12 13:23	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/12 13:34	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/30/12 13:23	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/12 13:34	VLO	
Vanadium [7440-62-2] ^	**1.63**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/30/12 13:23	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	04/30/12 13:23	JDH	

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

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Description: 9209-SW8 | **Lab Sample ID:** C203990-04 | **Received:** 04/26/12 13:20

Matrix: Surface Water | **Sampled:** 04/26/12 09:00 | **Work Order:** C203990

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/08/12 00:50	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/08/12 00:50	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/08/12 00:50	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 00:50	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/08/12 00:50	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/08/12 00:50	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/08/12 00:50	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/08/12 00:50	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/08/12 00:50	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/08/12 00:50	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/08/12 00:50	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/08/12 00:50	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/08/12 00:50	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 00:50	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/08/12 00:50	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 00:50	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/08/12 00:50	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/08/12 00:50	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 00:50	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 00:50	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/08/12 00:50	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/08/12 00:50	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 00:50	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/08/12 00:50	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/08/12 00:50	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/08/12 00:50	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/08/12 00:50	JKG	

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Description:	9209-SW8	**Lab Sample ID:**	C203990-04	**Received:**	04/26/12 13:20
Matrix:	Surface Water	**Sampled:**	04/26/12 09:00	**Work Order:**	C203990
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
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/08/12 00:50	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*109 %*	*51-122*	*2E07018*	*EPA 8260B*	*05/08/12 00:50*	*JKG*	
Dibromofluoromethane	*41*	*1*	*50.0*	*82 %*	*68-117*	*2E07018*	*EPA 8260B*	*05/08/12 00:50*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*83 %*	*67-127*	*2E07018*	*EPA 8260B*	*05/08/12 00:50*	*JKG*	

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Description: 9209-SW8 | **Lab Sample ID:** C203990-04 | **Received:** 04/26/12 13:20

Matrix: Surface Water | **Sampled:** 04/26/12 09:00 | **Work Order:** C203990

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	05/03/12 13:38	VLO	
Arsenic [7440-38-2] ^	**3.67**	J	ug/L	1	2.80	10.0	10	EPA 6010C	04/30/12 13:25	JDH	
Barium [7440-39-3] ^	**21.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/30/12 13:25	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/30/12 13:25	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/30/12 13:25	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/30/12 13:25	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/30/12 13:25	JDH	
Copper [7440-50-8] ^	**1.79**	J	ug/L	1	1.60	10.0	10	EPA 6010C	04/30/12 13:25	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/30/12 13:25	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/30/12 13:25	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/03/12 13:38	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/30/12 13:25	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/03/12 13:38	VLO	
Vanadium [7440-62-2] ^	**1.54**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/30/12 13:25	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	04/30/12 13:25	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 2E07018 - EPA 5030B_MS

Blank (2E07018-BLK1) Prepared: 05/07/2012 11:56 Analyzed: 05/07/2012 15:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*107*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E07018 - EPA 5030B_MS

Blank (2E07018-BLK1) Continued Prepared: 05/07/2012 11:56 Analyzed: 05/07/2012 15:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*85*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*67-127*			

LCS (2E07018-BS1) Prepared: 05/07/2012 11:56 Analyzed: 05/07/2012 15:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		88	75-133			
Benzene	17		1.0	ug/L	20.0		87	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		92	83-117			
Toluene	17		1.0	ug/L	20.0		86	71-118			
Trichloroethene	18		1.0	ug/L	20.0		92	82-118			
Surrogate: 4-Bromofluorobenzene	*55*			*ug/L*	*50.0*		*111*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*83*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*87*	*67-127*			

Matrix Spike (2E07018-MS1) Prepared: 05/07/2012 11:56 Analyzed: 05/07/2012 16:28

Source: C205209-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	88	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	88	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	94	83-117			
Toluene	17		1.0	ug/L	20.0	0.14 U	86	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	95	82-118			
Surrogate: 4-Bromofluorobenzene	*55*			*ug/L*	*50.0*		*111*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*84*	*68-117*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*87*	*67-127*			

Matrix Spike Dup (2E07018-MSD1) Prepared: 05/07/2012 11:56 Analyzed: 05/07/2012 16:57

Source: C205209-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.21 U	83	75-133	7	20	
Benzene	17		1.0	ug/L	20.0	0.15 U	86	81-134	2	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	92	83-117	2	16	
Toluene	16		1.0	ug/L	20.0	0.14 U	82	71-118	5	17	
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	90	82-118	5	15	
Surrogate: 4-Bromofluorobenzene	*55*			*ug/L*	*50.0*		*110*	*51-122*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*67-127*			

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

Batch 2D27002 - EPA 3005A

Blank (2D27002-BLK1) Prepared: 04/27/2012 08:17 Analyzed: 04/30/2012 12:27

QUALITY CONTROL

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

Batch 2D27002 - EPA 3005A

Blank (2D27002-BLK1) Continued Prepared: 04/27/2012 08:17 Analyzed: 04/30/2012 12:27

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 (2D27002-BS1) Prepared: 04/27/2012 08:17 Analyzed: 04/30/2012 12:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	206		10.0	ug/L	200		103	80-120			
Barium	215		10.0	ug/L	200		107	80-120			
Beryllium	20.4		1.00	ug/L	20.0		102	80-120			
Cadmium	21.9		1.00	ug/L	20.0		110	80-120			
Chromium	204		10.0	ug/L	200		102	80-120			
Cobalt	212		10.0	ug/L	200		106	80-120			
Copper	200		10.0	ug/L	200		100	80-120			
Lead	208		10.0	ug/L	200		104	80-120			
Nickel	214		10.0	ug/L	200		107	80-120			
Silver	207		10.0	ug/L	200		103	80-120			
Vanadium	207		10.0	ug/L	200		103	80-120			
Zinc	212		10.0	ug/L	200		106	80-120			

Matrix Spike (2D27002-MS1) Prepared: 04/27/2012 08:17 Analyzed: 04/30/2012 12:38

Source: C203922-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	207		10.0	ug/L	200	2.80 U	104	75-125			
Barium	230		10.0	ug/L	200	18.7	106	75-125			
Beryllium	20.7		1.00	ug/L	20.0	0.100 U	103	75-125			
Cadmium	21.6		1.00	ug/L	20.0	0.360 U	108	75-125			
Chromium	206		10.0	ug/L	200	1.00 U	103	75-125			
Cobalt	212		10.0	ug/L	200	1.10 U	106	75-125			
Copper	202		10.0	ug/L	200	1.60 U	101	75-125			
Lead	206		10.0	ug/L	200	1.90 U	103	75-125			
Nickel	216		10.0	ug/L	200	2.61	106	75-125			
Silver	208		10.0	ug/L	200	1.90 U	104	75-125			
Vanadium	209		10.0	ug/L	200	1.40 U	104	75-125			
Zinc	215		10.0	ug/L	200	3.80 U	108	75-125			

Matrix Spike Dup (2D27002-MSD1) Prepared: 04/27/2012 08:17 Analyzed: 04/30/2012 12:39

QUALITY CONTROL

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

Batch 2D27002 - EPA 3005A

Matrix Spike Dup (2D27002-MSD1) Continued Prepared: 04/27/2012 08:17 Analyzed: 04/30/2012 12:39

Source: C203922-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	209		10.0	ug/L	200	2.80 U	105	75-125	1	20	
Barium	233		10.0	ug/L	200	18.7	107	75-125	1	20	
Beryllium	20.8		1.00	ug/L	20.0	0.100 U	104	75-125	0.6	20	
Cadmium	22.1		1.00	ug/L	20.0	0.360 U	110	75-125	2	20	
Chromium	207		10.0	ug/L	200	1.00 U	103	75-125	0.5	20	
Cobalt	215		10.0	ug/L	200	1.10 U	108	75-125	1	20	
Copper	204		10.0	ug/L	200	1.60 U	102	75-125	0.9	20	
Lead	210		10.0	ug/L	200	1.90 U	105	75-125	2	20	
Nickel	219		10.0	ug/L	200	2.61	108	75-125	1	20	
Silver	209		10.0	ug/L	200	1.90 U	105	75-125	0.8	20	
Vanadium	210		10.0	ug/L	200	1.40 U	105	75-125	0.7	20	
Zinc	222		10.0	ug/L	200	3.80 U	111	75-125	3	20	

Post Spike (2D27002-PS1) Prepared: 04/27/2012 08:17 Analyzed: 04/30/2012 12:41

Source: C203922-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.202		0.0100	mg/L	0.200	0.00234	100	80-120			
Barium	0.225		0.0100	mg/L	0.200	0.0187	103	80-120			
Beryllium	0.0199		0.00100	mg/L	0.0200	5.69E-5	99	80-120			
Cadmium	0.0210		0.00100	mg/L	0.0200	-7.54E-6	105	80-120			
Chromium	0.198		0.0100	mg/L	0.200	0.000278	99	80-120			
Cobalt	0.205		0.0100	mg/L	0.200	0.000944	102	80-120			
Copper	0.195		0.0100	mg/L	0.200	0.000884	97	80-120			
Lead	0.200		0.0100	mg/L	0.200	-0.00136	101	80-120			
Nickel	0.209		0.0100	mg/L	0.200	0.00261	103	80-120			
Silver	0.207		0.0100	mg/L	0.200	-3.18E-5	104	80-120			
Vanadium	0.201		0.0100	mg/L	0.200	0.000231	100	80-120			
Zinc	0.221		0.0100	mg/L	0.200	0.00125	110	80-120			

Batch 2E01005 - EPA 3005A

Blank (2E01005-BLK1) Prepared: 05/01/2012 08:28 Analyzed: 05/03/2012 12:38

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 (2E01005-BS1) Prepared: 05/01/2012 08:28 Analyzed: 05/03/2012 12:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	198		2.00	ug/L	200		99	80-120			
Selenium	202		1.00	ug/L	200		101	80-120			
Thallium	206		1.00	ug/L	200		103	80-120			

QUALITY CONTROL

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

Batch 2E01005 - EPA 3005A

Matrix Spike (2E01005-MS1) Prepared: 05/01/2012 08:28 Analyzed: 05/03/2012 12:49

Source: C203924-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	204		2.00	ug/L	200	1.40	101	75-125			
Selenium	208		1.00	ug/L	200	0.830 U	104	75-125			
Thallium	203		1.00	ug/L	200	0.110 U	101	75-125			

Matrix Spike Dup (2E01005-MSD1) Prepared: 05/01/2012 08:28 Analyzed: 05/03/2012 12:53

Source: C203924-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	203		2.00	ug/L	200	1.40	101	75-125	0.7	20	
Selenium	209		1.00	ug/L	200	0.830 U	105	75-125	0.8	20	
Thallium	203		1.00	ug/L	200	0.110 U	102	75-125	0.3	20	

Post Spike (2E01005-PS1) Prepared: 05/01/2012 08:28 Analyzed: 05/03/2012 12:56

Source: C203924-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	203		2.00	ug/L	200	1.40	101	80-120			
Selenium	215		1.00	ug/L	200	0.0353	108	80-120			
Thallium	203		1.00	ug/L	200	0.0793	101	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 CHAIN-OF-CUSTODY RECORD

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

4810 Executive Park Court, Suite 111
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 1

Client Name: CDM Smith, Inc. (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: 325-3566 Fax: ()-	Reporting Contact: Dan Forbes
Sampler(s) Name, Affiliation (Print): Aaron Weisofenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature: [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: C203990

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	4/26/12	1050	G	SW	4	X	X	-report results accordingly
	9209-SW3	4/26/12	1130	G	SW	4	X	X	to SWS limits
	9209-SW7	4/26/12	915	G	SW	4	X	X	-provide edd
	9209-SW8	4/26/12	900	G	SW	4	X	X	-report J values

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
MEJ	4/4/12	[signature]	4/26/12 1200	[signature]	4/26/12 1200
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time 4/26/12 120

Cooler #'s & Temps on Receipt: C-517 1.3°C C-691 1.4°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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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, May 10, 2012

CDM Smith, Inc. (CD004)

Attn: Dan Forbes

5400 GLENWOOD AVE SUITE 300

RALEIGH, NC 27612-

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: North Wake Unlined Landfill
ENCO Workorder(s): C203991,C204846

Dear Dan Forbes,

Enclosed is a copy of your laboratory report for test samples received by our laboratory between Wednesday, April 25, 2012 and Thursday, April 26, 2012.

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 227.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 9209-MW5R **Lab ID: C203991-01** **Sampled: 04/24/12 16:00** **Received: 04/25/12 13:10**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/22/12		04/30/12	09:22	5/1/2012 20:41
EPA 310.2	05/08/12		04/30/12	06:39	4/30/2012 08:31
EPA 353.2	04/26/12	16:00	04/25/12	13:04	4/25/2012 17:20
EPA 353.2	05/22/12		04/29/12	14:28	4/29/2012 17:09
EPA 353.2	01/18/15		04/29/12	16:46	4/29/2012 18:23
EPA 6010C	10/21/12		04/26/12	08:30	4/27/2012 11:29
EPA 6020A	10/21/12		04/26/12	08:33	4/30/2012 12:39
EPA 7470A	05/22/12		04/27/12	08:37	4/27/2012 14:55
EPA 8260B	05/08/12		05/02/12	10:02	5/2/2012 20:52
RSK-175	05/01/12		04/27/12	09:48	4/27/2012 11:09
SM 5210B	04/26/12	16:00	04/25/12	17:17	4/25/2012 17:17
SM 5220D	05/22/12		05/01/12	11:20	5/1/2012 14:45
SM18 3500-Fe D	04/24/12	16:14	05/07/12	07:46	5/7/2012 08:18
SM18 4500-S D	05/01/12		04/30/12	15:18	4/30/2012 15:27
SM18 5310B	05/22/12		04/30/12	09:02	4/30/2012 14:43
VGC-13	05/08/12		05/07/12	13:31	5/7/2012 16:40

Client ID: 9209-MW5R **Lab ID: C203991-01RE1** **Sampled: 04/24/12 16:00** **Received: 04/25/12 13:10**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	05/01/12		04/27/12	09:48	4/27/2012 14:02

Client ID: 9209-MW6 **Lab ID: C203991-02** **Sampled: 04/24/12 17:10** **Received: 04/25/12 13:10**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/22/12		04/30/12	09:22	5/1/2012 20:57
EPA 310.2	05/08/12		04/30/12	06:39	4/30/2012 08:32
EPA 353.2	04/26/12	17:10	04/25/12	13:04	4/25/2012 17:24
EPA 353.2	05/22/12		04/29/12	14:28	4/29/2012 17:11
EPA 353.2	01/18/15		04/29/12	16:46	4/29/2012 18:23
EPA 6010C	10/21/12		04/26/12	08:30	4/27/2012 11:50
EPA 6020A	10/21/12		04/26/12	08:33	4/30/2012 12:43
EPA 7470A	05/22/12		04/27/12	08:37	4/27/2012 14:57
EPA 8260B	05/08/12		05/02/12	10:02	5/2/2012 21:21
RSK-175	05/01/12		04/27/12	09:48	4/27/2012 11:25
SM 5210B	04/26/12	17:10	04/25/12	17:17	4/25/2012 17:17
SM 5220D	05/22/12		05/01/12	11:20	5/1/2012 14:45
SM18 3500-Fe D	04/24/12	17:24	05/07/12	07:46	5/7/2012 08:18
SM18 4500-S D	05/01/12		04/30/12	15:18	4/30/2012 15:27
SM18 5310B	05/22/12		04/30/12	09:02	4/30/2012 15:09
VGC-13	05/08/12		05/07/12	13:31	5/7/2012 17:03

Client ID: 9209-MW6 **Lab ID: C203991-02RE1** **Sampled: 04/24/12 17:10** **Received: 04/25/12 13:10**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	05/01/12		04/27/12	09:48	4/27/2012 14:18

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Client ID: 9209-MW6	Lab ID: C203991-02RE2	Sampled: 04/24/12 17:10	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
RSK-175	05/01/12	04/27/12 09:48	4/27/2012 14:34

Client ID: 9209-MW8	Lab ID: C203991-03	Sampled: 04/24/12 12:40	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/22/12	04/30/12 09:22	5/1/2012 21:30
EPA 310.2	05/08/12	04/30/12 06:39	4/30/2012 08:33
EPA 353.2	04/26/12 12:40	04/25/12 13:04	4/25/2012 17:22
EPA 353.2	05/22/12	04/29/12 14:28	4/29/2012 17:14
EPA 353.2	01/18/15	04/29/12 16:46	4/29/2012 18:23
EPA 6010C	10/21/12	04/26/12 08:30	4/27/2012 11:53
EPA 6020A	10/21/12	04/26/12 08:33	4/30/2012 12:13
EPA 7470A	05/22/12	04/27/12 08:37	4/27/2012 14:59
EPA 8260B	05/08/12	05/02/12 10:02	5/2/2012 21:51
RSK-175	05/01/12	04/27/12 09:48	4/27/2012 11:41
SM 5210B	04/26/12 12:40	04/25/12 17:17	4/25/2012 17:17
SM 5220D	05/22/12	05/01/12 11:20	5/1/2012 14:45
SM18 3500-Fe D	04/24/12 12:54	05/07/12 07:46	5/7/2012 08:18
SM18 4500-S D	05/01/12	04/30/12 15:18	4/30/2012 15:27
SM18 5310B	05/22/12	04/30/12 09:02	4/30/2012 15:32
VGC-13	05/08/12	05/07/12 13:31	5/7/2012 17:27

Client ID: 9209-MW8	Lab ID: C203991-03RE1	Sampled: 04/24/12 12:40	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
RSK-175	05/01/12	04/27/12 09:48	4/27/2012 14:50

Client ID: 9209-MW8	Lab ID: C203991-03RE2	Sampled: 04/24/12 12:40	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
RSK-175	05/01/12	04/27/12 09:48	4/27/2012 15:06

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Client ID: 9209-MW9	Lab ID: C203991-04	Sampled: 04/25/12 08:15	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/23/12		04/30/12	09:22	5/1/2012 21:47
EPA 310.2	05/09/12		04/30/12	06:39	4/30/2012 08:34
EPA 353.2	04/27/12	08:15	04/25/12	13:04	4/25/2012 17:21
EPA 353.2	05/23/12		04/29/12	14:28	4/29/2012 17:20
EPA 353.2	01/19/15		04/29/12	16:46	4/29/2012 18:23
EPA 6010C	10/22/12		04/26/12	08:30	4/27/2012 11:55
EPA 6020A	10/22/12		04/26/12	08:33	4/30/2012 12:46
EPA 7470A	05/23/12		04/27/12	08:37	4/27/2012 15:01
EPA 8260B	05/09/12		05/04/12	12:30	5/5/2012 02:40
RSK-175	05/02/12		04/27/12	09:48	4/27/2012 11:57
SM 5210B	04/27/12	08:15	04/26/12	16:45	4/26/2012 16:45
SM 5220D	05/23/12		05/01/12	11:20	5/1/2012 14:45
SM18 4500-S D	05/02/12		04/30/12	15:18	4/30/2012 15:27
SM18 5310B	05/23/12		04/30/12	09:02	4/30/2012 15:58
VGC-13	05/09/12		05/07/12	13:31	5/7/2012 17:51

Client ID: 9209-MW9	Lab ID: C203991-04RE1	Sampled: 04/25/12 08:15	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	05/02/12		04/27/12	09:48	4/27/2012 15:22
SM18 3500-Fe D	04/25/12	08:29	05/07/12	07:46	5/7/2012 08:18

Client ID: 9209-MW9	Lab ID: C203991-04RE2	Sampled: 04/25/12 08:15	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	05/02/12		04/27/12	09:48	4/27/2012 15:38

Client ID: 9209-MW10	Lab ID: C203991-05	Sampled: 04/25/12 09:00	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/23/12		04/30/12	09:22	5/1/2012 22:03
EPA 310.2	05/09/12		04/30/12	06:39	4/30/2012 08:35
EPA 353.2	04/27/12	09:00	04/25/12	13:04	4/25/2012 17:22
EPA 353.2	05/23/12		04/29/12	14:28	4/29/2012 17:22
EPA 353.2	01/19/15		04/29/12	16:46	4/29/2012 18:23
EPA 6010C	10/22/12		04/26/12	08:30	4/27/2012 11:58
EPA 6020A	10/22/12		04/26/12	08:33	4/30/2012 12:50
EPA 7470A	05/23/12		04/27/12	08:37	4/27/2012 14:23
EPA 8260B	05/09/12		05/04/12	12:30	5/5/2012 03:10
RSK-175	05/02/12		04/27/12	09:48	4/27/2012 12:13
SM 5210B	04/27/12	09:00	04/26/12	16:45	4/26/2012 16:45
SM 5220D	05/23/12		05/01/12	11:20	5/1/2012 14:45
SM18 3500-Fe D	04/25/12	09:14	05/07/12	07:46	5/7/2012 08:18
SM18 4500-S D	05/02/12		04/30/12	15:18	4/30/2012 15:27
SM18 5310B	05/23/12		04/30/12	09:02	4/30/2012 16:23
VGC-13	05/09/12		05/07/12	13:31	5/7/2012 18:14

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Client ID: 9209-MW10	Lab ID: C203991-05RE1	Sampled: 04/25/12 09:00	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
RSK-175	05/02/12	04/27/12 09:48	4/27/2012 15:54

Client ID: 9209-MW10	Lab ID: C203991-05RE2	Sampled: 04/25/12 09:00	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
RSK-175	05/02/12	04/27/12 09:48	4/27/2012 16:10

Client ID: 9209-MW11	Lab ID: C203991-06	Sampled: 04/25/12 07:00	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/23/12	04/30/12 09:22	5/1/2012 22:20
EPA 310.2	05/09/12	04/30/12 06:39	4/30/2012 08:37
EPA 353.2	04/27/12 07:00	04/25/12 13:04	4/25/2012 17:23
EPA 353.2	05/23/12	04/29/12 14:28	4/29/2012 17:24
EPA 353.2	01/19/15	04/29/12 16:46	4/29/2012 18:23
EPA 6010C	10/22/12	04/26/12 08:30	4/27/2012 12:00
EPA 6020A	10/22/12	04/26/12 08:33	4/30/2012 12:54
EPA 7470A	05/23/12	04/27/12 08:37	4/27/2012 15:04
EPA 8260B	05/09/12	05/04/12 12:30	5/5/2012 03:39
RSK-175	05/02/12	04/27/12 09:48	4/27/2012 12:29
SM 5210B	04/27/12 07:00	04/26/12 16:45	4/26/2012 16:45
SM 5220D	05/23/12	05/01/12 11:20	5/1/2012 14:45
SM18 3500-Fe D	04/25/12 07:14	05/07/12 07:46	5/7/2012 08:18
SM18 4500-S D	05/02/12	04/30/12 15:18	4/30/2012 15:27
SM18 5310B	05/23/12	04/30/12 09:02	4/30/2012 17:14
VGC-13	05/09/12	05/07/12 13:31	5/7/2012 18:38

Client ID: 9209-MW11	Lab ID: C203991-06RE1	Sampled: 04/25/12 07:00	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
RSK-175	05/02/12	04/27/12 09:48	4/27/2012 16:26

Client ID: 9209-MW22	Lab ID: C203991-07	Sampled: 04/25/12 09:30	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/22/12	04/26/12 08:30	4/27/2012 12:02
EPA 6020A	10/22/12	04/26/12 08:33	4/30/2012 12:58
EPA 7470A	05/23/12	04/27/12 08:37	4/27/2012 15:06
EPA 8260B	05/09/12	05/04/12 12:30	5/5/2012 04:09

Client ID: 9209-MW30	Lab ID: C203991-08	Sampled: 04/25/12 10:50	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/22/12	04/26/12 08:30	4/27/2012 12:04
EPA 6020A	10/22/12	04/26/12 08:33	4/30/2012 13:01
EPA 7470A	05/23/12	04/27/12 08:37	4/27/2012 15:08
EPA 8260B	05/09/12	05/04/12 12:30	5/5/2012 04:38

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Client ID: 9209-MW31	Lab ID: C203991-09	Sampled: 04/25/12 10:00	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/22/12	04/26/12 08:30	4/27/2012 12:17
EPA 6020A	10/22/12	04/26/12 08:33	4/30/2012 13:05
EPA 7470A	05/23/12	04/27/12 08:37	4/27/2012 15:10
EPA 8260B	05/09/12	05/04/12 12:30	5/5/2012 05:08

Client ID: 9209-MW31d	Lab ID: C203991-10	Sampled: 04/24/12 09:30	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/21/12	04/26/12 08:30	4/27/2012 12:19
EPA 6020A	10/21/12	04/26/12 08:33	4/30/2012 13:34
EPA 7470A	05/22/12	04/27/12 08:37	4/27/2012 15:12
EPA 8260B	05/08/12	05/02/12 10:02	5/2/2012 22:20

Client ID: 9209-MW32	Lab ID: C203991-11	Sampled: 04/25/12 10:40	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/22/12	04/26/12 08:30	4/27/2012 12:21
EPA 6020A	10/22/12	04/26/12 08:33	4/30/2012 13:38
EPA 7470A	05/23/12	04/27/12 08:37	4/27/2012 15:15
EPA 8260B	05/09/12	05/04/12 12:30	5/5/2012 05:37

Client ID: 9209-MWTB1a	Lab ID: C203991-12	Sampled: 04/25/12 10:30	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/22/12	04/26/12 08:30	4/27/2012 12:23
EPA 6020A	10/22/12	04/26/12 08:33	4/30/2012 13:41
EPA 7470A	05/23/12	04/27/12 08:37	4/27/2012 15:23
EPA 8260B	05/09/12	05/04/12 12:30	5/5/2012 06:06

Client ID: 9209-MWTB1ad	Lab ID: C203991-13	Sampled: 04/24/12 10:30	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/21/12	04/26/12 08:30	4/27/2012 12:25
EPA 6020A	10/21/12	04/26/12 08:33	4/30/2012 13:45
EPA 7470A	05/22/12	04/27/12 08:37	4/27/2012 15:25
EPA 8260B	05/08/12	05/02/12 10:02	5/2/2012 22:50

Client ID: 9209-MW33	Lab ID: C203991-14	Sampled: 04/25/12 09:50	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/22/12	04/26/12 08:30	4/27/2012 12:28
EPA 6020A	10/22/12	04/26/12 08:33	4/30/2012 13:49
EPA 7470A	05/23/12	04/27/12 08:37	4/27/2012 15:27
EPA 8260B	05/09/12	05/04/12 12:30	5/5/2012 06:36

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Client ID: 9209-MW35	Lab ID: C203991-15	Sampled: 04/25/12 09:40	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/22/12	04/26/12 08:30	4/27/2012 12:30
EPA 6020A	10/22/12	04/26/12 08:33	4/30/2012 13:53
EPA 7470A	05/23/12	04/27/12 08:37	4/27/2012 15:30
EPA 8260B	05/09/12	05/04/12 12:30	5/5/2012 07:05

Client ID: 9209-MW36	Lab ID: C203991-16	Sampled: 04/25/12 07:45	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/23/12	04/30/12 09:22	5/1/2012 22:36
EPA 310.2	05/09/12	04/30/12 06:39	4/30/2012 08:38
EPA 353.2	04/27/12 07:45	04/25/12 13:04	4/25/2012 17:19
EPA 353.2	05/23/12	04/29/12 14:28	4/29/2012 17:27
EPA 353.2	01/19/15	04/29/12 16:46	4/29/2012 18:23
EPA 6010C	10/22/12	04/26/12 08:30	4/27/2012 12:32
EPA 6020A	10/22/12	04/26/12 08:33	4/30/2012 13:56
EPA 7470A	05/23/12	04/27/12 08:37	4/27/2012 15:32
EPA 8260B	05/09/12	05/04/12 12:30	5/5/2012 07:35
RSK-175	05/02/12	04/27/12 09:48	4/27/2012 12:46
SM 5210B	04/27/12 07:45	04/26/12 16:45	4/26/2012 16:45
SM 5220D	05/23/12	05/01/12 11:20	5/1/2012 14:45
SM18 3500-Fe D	04/25/12 07:59	05/07/12 07:46	5/7/2012 08:18
SM18 4500-S D	05/02/12	04/30/12 15:18	4/30/2012 15:27
SM18 5310B	05/23/12	04/30/12 09:02	4/30/2012 17:38

Client ID: 9209-MW36	Lab ID: C203991-16RE1	Sampled: 04/25/12 07:45	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
RSK-175	05/02/12	04/27/12 09:48	4/27/2012 16:43
VGC-13	05/09/12	05/07/12 13:31	5/7/2012 23:41

Client ID: 9209-TripBlank	Lab ID: C203991-17	Sampled: 04/25/12 09:30	Received: 04/25/12 13:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	05/09/12	05/04/12 12:30	5/5/2012 08:04

Client ID: 9209-MW6d	Lab ID: C204846-01	Sampled: 04/26/12 10:00	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/23/12	04/27/12 08:20	5/1/2012 12:30
EPA 6020A	10/23/12	04/27/12 08:28	4/30/2012 11:02
EPA 7470A	05/24/12	05/01/12 08:26	5/1/2012 15:14
EPA 8260B	05/10/12	05/08/12 15:20	5/8/2012 19:55

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Client ID: 9209-MW7	Lab ID: C204846-02	Sampled: 04/26/12 07:55	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/23/12	04/27/12 08:20	5/1/2012 12:48
EPA 6020A	10/23/12	04/27/12 08:28	4/30/2012 11:05
EPA 7470A	05/24/12	05/01/12 08:26	5/1/2012 15:16
EPA 8260B	05/10/12	05/08/12 15:20	5/8/2012 20:24

Client ID: 9209-MW8d	Lab ID: C204846-03	Sampled: 04/26/12 10:40	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/23/12	04/27/12 08:20	5/1/2012 12:50
EPA 6020A	10/23/12	04/27/12 08:28	4/30/2012 10:24
EPA 7470A	05/24/12	05/01/12 08:26	5/1/2012 15:18
EPA 8260B	05/10/12	05/08/12 15:20	5/8/2012 20:53

Client ID: 9209-MW10d	Lab ID: C204846-04	Sampled: 04/26/12 08:20	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/23/12	04/27/12 08:20	5/1/2012 12:52
EPA 6020A	10/23/12	04/27/12 08:28	4/30/2012 11:09
EPA 7470A	05/24/12	05/01/12 08:26	5/1/2012 15:20
EPA 8260B	05/10/12	05/08/12 15:20	5/8/2012 21:23

Client ID: 9209-MW11d	Lab ID: C204846-05	Sampled: 04/26/12 07:40	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/23/12	04/27/12 08:20	5/1/2012 12:54
EPA 6020A	10/23/12	04/27/12 08:28	4/30/2012 11:13
EPA 7470A	05/24/12	05/01/12 08:26	5/1/2012 15:22
EPA 8260B	05/10/12	05/08/12 15:20	5/8/2012 21:52

Client ID: 9209-MW23	Lab ID: C204846-06	Sampled: 04/26/12 08:10	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/23/12	04/27/12 08:20	5/1/2012 12:56
EPA 6020A	10/23/12	04/27/12 08:28	4/30/2012 11:17
EPA 7470A	05/24/12	05/01/12 08:26	5/1/2012 15:24
EPA 8260B	05/10/12	05/08/12 15:20	5/8/2012 22:21

Client ID: 9209-MW23d	Lab ID: C204846-07	Sampled: 04/25/12 14:25	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/22/12	04/27/12 08:20	5/1/2012 12:58
EPA 6020A	10/22/12	04/27/12 08:28	4/30/2012 11:20
EPA 7470A	05/23/12	05/01/12 08:26	5/1/2012 15:26

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Client ID: 9209-MW23d	Lab ID: C204846-07RE1	Sampled: 04/25/12 14:25	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	05/09/12		05/07/12	11:56	5/7/2012 18:26

Client ID: 9209-MW24	Lab ID: C204846-08	Sampled: 04/26/12 08:05	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/23/12		04/27/12	08:20	5/1/2012 13:00
EPA 6020A	10/23/12		04/27/12	08:28	4/30/2012 11:24
EPA 7470A	05/24/12		05/01/12	08:26	5/1/2012 15:28
EPA 8260B	05/10/12		05/08/12	15:20	5/8/2012 22:51

Client ID: 9209-MW28	Lab ID: C204846-09	Sampled: 04/26/12 12:05	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/23/12		04/27/12	08:20	5/1/2012 13:02
EPA 6020A	10/23/12		04/27/12	08:28	4/30/2012 11:28
EPA 7470A	05/24/12		05/01/12	08:26	5/1/2012 15:31
EPA 8260B	05/10/12		05/08/12	15:20	5/8/2012 23:20

Client ID: 9209-MW28d	Lab ID: C204846-10	Sampled: 04/26/12 12:10	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/23/12		04/27/12	08:20	5/1/2012 13:10
EPA 6020A	10/23/12		04/27/12	08:28	4/30/2012 11:31
EPA 7470A	05/24/12		05/01/12	08:26	5/1/2012 15:33
EPA 8260B	05/10/12		05/08/12	15:20	5/8/2012 23:49

Client ID: 9209-MW29d	Lab ID: C204846-11	Sampled: 04/26/12 11:55	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/23/12		04/27/12	08:20	5/1/2012 13:12
EPA 6020A	10/23/12		04/27/12	08:28	4/30/2012 11:35
EPA 7470A	05/24/12		05/01/12	08:26	5/1/2012 15:40
EPA 8260B	05/10/12		05/08/12	15:20	5/9/2012 00:18
EPA 8270D	05/03/12	06/12/12	05/03/12	09:50	5/9/2012 01:26

Client ID: 9209-MW34	Lab ID: C204846-12	Sampled: 04/26/12 10:15	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/23/12		04/27/12	08:20	5/1/2012 13:14
EPA 6020A	10/23/12		04/27/12	08:28	4/30/2012 11:46
EPA 7470A	05/24/12		05/01/12	08:26	5/1/2012 15:42
EPA 8260B	05/10/12		05/08/12	15:20	5/9/2012 00:48

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Client ID: 9209-MW34d	Lab ID: C204846-13	Sampled: 04/25/12 12:30	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/22/12	04/27/12 08:20	5/1/2012 13:16
EPA 6020A	10/22/12	04/27/12 08:28	4/30/2012 11:50
EPA 7470A	05/23/12	05/01/12 08:26	5/1/2012 15:44
EPA 8260B	05/09/12	05/05/12 12:28	5/5/2012 22:51

Client ID: 9209-MW36d	Lab ID: C204846-14	Sampled: 04/26/12 08:50	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/23/12	04/27/12 08:20	5/1/2012 13:18
EPA 6020A	10/23/12	04/27/12 08:28	4/30/2012 11:54
EPA 7470A	05/24/12	05/01/12 08:26	5/1/2012 15:46
EPA 8260B	05/10/12	05/08/12 15:20	5/9/2012 01:17

Client ID: 9209-DUP	Lab ID: C204846-15	Sampled: 04/26/12 07:00	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/23/12	04/27/12 08:20	5/1/2012 13:20
EPA 6020A	10/23/12	04/27/12 08:28	4/30/2012 11:58
EPA 7470A	05/24/12	05/01/12 08:26	5/1/2012 15:48
EPA 8260B	05/10/12	05/08/12 15:20	5/9/2012 01:46

Client ID: 9209-EQBlank	Lab ID: C204846-16	Sampled: 04/25/12 17:00	Received: 04/26/12 13:20

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	10/22/12	04/27/12 08:20	5/1/2012 13:22
EPA 6020A	10/22/12	04/27/12 08:28	4/30/2012 12:01
EPA 7470A	05/23/12	05/01/12 08:26	5/1/2012 15:50
EPA 8260B	05/09/12	05/05/12 12:28	5/5/2012 23:20

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 9209-MW5R **Lab ID: C203991-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.411	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	97.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloride	2200	J	1	430	5000	NE	ug/L	EPA 300.0	
Chromium - Total	2.79	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.47	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	10000		1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	10000	D	10	250	1000	NE	ug/L	EPA 353.2	
Nitrite as N	14	JB	1	3.0	100	1000	ug/L	EPA 353.2	J-01
Sulfate as SO4	3400	J	1	40	5000	250000	ug/L	EPA 300.0	
Thallium - Total	0.170	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Alkalinity as CaCO3	110000		1	12000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	1100		1	280	1000	NE	ug/L	SM18 5310B	
Zinc - Total	4.28	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW5R **Lab ID: C203991-01RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	321000	D	10	2700	25000	NE	ug/L	RSK-175	

Client ID: 9209-MW6 **Lab ID: C203991-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	0.50	J	1	0.19	1.0	1	ug/L	EPA 8260B	
Antimony - Total	0.244	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	182		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.70	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chemical Oxygen Demand	32000		1	10000	10000	NE	ug/L	SM 5220D	
Chloride	97000		1	430	5000	NE	ug/L	EPA 300.0	
Chlorobenzene	0.50	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	3.49	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	0.42	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	54.9		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	8.45	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	250	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	260		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	12	JB	1	3.0	100	1000	ug/L	EPA 353.2	J-01
Pentanoic Acid	560		1	48	70	NE	ug/L	VGC-13	
Propionic Acid	1700		1	57	70	NE	ug/L	VGC-13	
Silver - Total	2.18	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	3500	J	1	40	5000	250000	ug/L	EPA 300.0	
Thallium - Total	0.134	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Alkalinity as CaCO3	190000	D	5	60000	75000	NE	ug/L	EPA 310.2	
Total Organic Carbon	4400		1	280	1000	NE	ug/L	SM18 5310B	
Vinyl chloride	0.56	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	117		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW6 **Lab ID: C203991-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	549000	D	10	2700	25000	NE	ug/L	RSK-175	

Client ID: 9209-MW6 **Lab ID: C203991-02RE2**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	5660	D	100	43.0	100	NE	ug/L	RSK-175	

Client ID: 9209-MW8 **Lab ID: C203991-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.75	J	1	0.13	1.0	5	ug/L	EPA 8260B	
Antimony - Total	0.937	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	
Chloride	12000		1	430	5000	NE	ug/L	EPA 300.0	
Chromium - Total	1.21	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	23		1	0.15	1.0	5	ug/L	EPA 8260B	
Nickel - Total	3.19	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	8.2	JB	1	3.0	100	1000	ug/L	EPA 353.2	J-01
Sulfate as SO4	2600	J	1	40	5000	250000	ug/L	EPA 300.0	
Total Alkalinity as CaCO3	74000		1	12000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	950	J	1	280	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	1.83	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	515		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW8 **Lab ID: C203991-03RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	324000	D	10	2700	25000	NE	ug/L	RSK-175	

Client ID: 9209-MW8 **Lab ID: C203991-03RE2**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	1870	D	100	43.0	100	NE	ug/L	RSK-175	

Client ID: 9209-MW9 **Lab ID: C203991-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	9.8		1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichloropropane	0.68	J	1	0.10	1.0	1	ug/L	EPA 8260B	
1,4-Dichlorobenzene	8.1		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	176		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.8		1	0.15	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.220	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Biochemical Oxygen Demand	5400		1	2000	2000	NE	ug/L	SM 5210B	
Chemical Oxygen Demand	34000		1	10000	10000	NE	ug/L	SM 5220D	
Chloride	18000		1	430	5000	NE	ug/L	EPA 300.0	
Chromium - Total	5.68	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	15		1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	4.81	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Ethene	1.59	J	1	0.540	3.00	NE	ug/L	RSK-175	
Ethylbenzene	0.54	J	1	0.13	1.0	1	ug/L	EPA 8260B	
Nitrate as N	79	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	90	J	1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	11	JB	1	3.0	100	1000	ug/L	EPA 353.2	J-01
Propionic Acid	1700		1	57	70	NE	ug/L	VGC-13	
Silver - Total	2.72	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	2800	J	1	40	5000	250000	ug/L	EPA 300.0	
Total Alkalinity as CaCO3	250000	D	2	24000	30000	NE	ug/L	EPA 310.2	

Client ID: 9209-MW9 **Lab ID: C203991-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Total Organic Carbon	6100		1	280	1000	NE	ug/L	SM18 5310B	
Trichloroethene	0.47	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	19		1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	13.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW9 **Lab ID: C203991-04RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	503000	D	10	2700	25000	NE	ug/L	RSK-175	

Client ID: 9209-MW9 **Lab ID: C203991-04RE2**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	2810	D	100	43.0	100	NE	ug/L	RSK-175	

Client ID: 9209-MW10 **Lab ID: C203991-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	3.2	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.0		1	0.19	1.0	1	ug/L	EPA 8260B	
Acetic Acid	260		1	40	70	NE	ug/L	VGC-13	
Acetone	10	J	1	1.2	5.0	100	ug/L	EPA 8260B	
Barium - Total	34.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	2.3		1	0.15	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.320	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.438	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	10000		1	10000	10000	NE	ug/L	SM 5220D	
Chloride	3500	J	1	430	5000	NE	ug/L	EPA 300.0	
Chromium - Total	1.79	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	44		1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	2.04	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.81	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Hexanoic Acid	590		1	87	100	NE	ug/L	VGC-13	
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid)	170		1	62	140	NE	ug/L	VGC-13	
Lead - Total	2.64	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Mercury - Total	0.538		1	0.170	0.200	0.2	ug/L	EPA 7470A	
Nickel - Total	2.25	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrite as N	9.7	JB	1	3.0	100	1000	ug/L	EPA 353.2	J-01
Sulfate as SO4	3100	J	1	40	5000	250000	ug/L	EPA 300.0	
Tetrachloroethene	2.9		1	0.17	1.0	1	ug/L	EPA 8260B	
Total Alkalinity as CaCO3	120000		1	12000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	3300		1	280	1000	NE	ug/L	SM18 5310B	
Trichloroethene	2.5		1	0.15	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	1.4		1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	21.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW10 **Lab ID: C203991-05RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	832000	D	10	2700	25000	NE	ug/L	RSK-175	

Client ID: 9209-MW10 **Lab ID: C203991-05RE2**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	10300	D	500	215	500	NE	ug/L	RSK-175	

Client ID: 9209-MW11 **Lab ID: C203991-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	65.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloride	3100	J	1	430	5000	NE	ug/L	EPA 300.0	
Copper - Total	2.37	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid)	130	J	1	62	140	NE	ug/L	VGC-13	
Nitrate as N	86	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	8.3	JB	1	3.0	100	1000	ug/L	EPA 353.2	J-01
Sulfate as SO4	1700	J	1	40	5000	250000	ug/L	EPA 300.0	
Total Alkalinity as CaCO3	22000		1	12000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	760	J	1	280	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	3.23	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	12.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW11 **Lab ID: C203991-06RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	161000	D	10	2700	25000	NE	ug/L	RSK-175	

Client ID: 9209-MW22 **Lab ID: C203991-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	61.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.224	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	4.78		1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	4.77	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	63.8		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	14.0	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	2.56	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.162	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	33.1		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	18.4		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW30 **Lab ID: C203991-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	169		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.773	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	58.0		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	9.94	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	73.9		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	9.17	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	22.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	2.15	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.360	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	51.7		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	54.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW31 **Lab ID: C203991-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	33.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.122	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloroform	1.3	J	1	0.18	1.0	5	ug/L	EPA 8260B	
Chromium - Total	13.1		1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	6.71	J	1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW31 **Lab ID: C203991-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Lead - Total	3.56	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	5.40	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	0.904	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	9.25	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	33.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW31d **Lab ID: C203991-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	1.68	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	17.1	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	23		1	0.18	1.0	5	ug/L	EPA 8260B	
Chromium - Total	6.79	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	26.5		1	1.60	10.0	10	ug/L	EPA 6010C	
Selenium - Total	0.944	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	7.62	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	12.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW32 **Lab ID: C203991-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.393	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	3.37	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	15.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.261	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	1.92	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	2.34	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	8.49	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	1.96	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	5.71	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	6.22	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MWTB1a **Lab ID: C203991-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.269	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	190		1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	1.50		1	0.360	1.00	1	ug/L	EPA 6010C	
Chloroform	0.90	J	1	0.18	1.0	5	ug/L	EPA 8260B	
Chromium - Total	29.0		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	22.0		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	158		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	7.33	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Mercury - Total	0.348		1	0.170	0.200	0.2	ug/L	EPA 7470A	
Nickel - Total	27.9	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.186	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	61.3		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	89.4		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MWTB1ad **Lab ID: C203991-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.928	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	15.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	23		1	0.18	1.0	5	ug/L	EPA 8260B	

Client ID: 9209-MWTB1ad **Lab ID: C203991-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chromium - Total	15.0		1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	11.5		1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.87	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	1.23	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	6.58	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	8.41	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW33 **Lab ID: C203991-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	112		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.208	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	44.4		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	15.1		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	37.0		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	6.44	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	20.2	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	0.917	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	72.1		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	102		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW35 **Lab ID: C203991-15**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	51.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.616	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	3.96	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	2.36	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	5.67	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.10	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	11.3	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	17.8		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW36 **Lab ID: C203991-16**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	5.5		1	0.13	1.0	5	ug/L	EPA 8260B	
Barium - Total	64.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Biochemical Oxygen Demand	5200		1	2000	2000	NE	ug/L	SM 5210B	
Chemical Oxygen Demand	29000		1	10000	10000	NE	ug/L	SM 5220D	
Chloride	5900		1	430	5000	NE	ug/L	EPA 300.0	
Chromium - Total	7.90	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	3.3	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	2.61	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	9.44	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	4.33	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	500	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	510		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	8.6	JB	1	3.0	100	1000	ug/L	EPA 353.2	J-01
Sulfate as SO4	3900	J	1	40	5000	250000	ug/L	EPA 300.0	
Total Alkalinity as CaCO3	60000		1	12000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	1100		1	280	1000	NE	ug/L	SM18 5310B	
Trichloroethene	0.74	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	12.5	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 9209-MW36 **Lab ID: C203991-16**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Zinc - Total	12.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW36 **Lab ID: C203991-16RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	336000	D	10	2700	25000	NE	ug/L	RSK-175	
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid)	73	J	1	62	140	NE	ug/L	VGC-13	
Methane	186	D	10	4.30	10.0	NE	ug/L	RSK-175	

Client ID: 9209-MW6d **Lab ID: C204846-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	2.3	J	1	0.13	1.0	5	ug/L	EPA 8260B	
Antimony - Total	1.59	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	72.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	0.61	J	1	0.18	1.0	5	ug/L	EPA 8260B	
Chromium - Total	5.68	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	7.24	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J
Dichlorodifluoromethane	0.53	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Lead - Total	2.37	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.61	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrachloroethene	0.40	J	1	0.17	1.0	1	ug/L	EPA 8260B	
Trichloroethene	0.42	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	4.00	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	6.97	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW7 **Lab ID: C204846-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	0.79	J	1	0.19	1.0	1	ug/L	EPA 8260B	
Acetone	120		1	1.2	5.0	100	ug/L	EPA 8260B	
Barium - Total	50.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.66	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Cadmium - Total	0.805	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	13.3		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	27.1		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	10.7	B	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	4.04	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	10.9	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	3.63	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	7.24	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.49	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	13.9		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW8d **Lab ID: C204846-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	1.63	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	34.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	0.42	J	1	0.18	1.0	5	ug/L	EPA 8260B	
Chromium - Total	5.24	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	11.0	B	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	2.82	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	4.15	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	7.52	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW10d **Lab ID: C204846-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	2.2	J	1	0.13	1.0	5	ug/L	EPA 8260B	
Antimony - Total	0.232	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	4.36	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	3.50	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	0.60	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Copper - Total	3.47	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J
Dichlorodifluoromethane	0.70	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Lead - Total	4.57	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Tetrachloroethene	0.52	J	1	0.17	1.0	1	ug/L	EPA 8260B	
Trichloroethene	0.50	J	1	0.15	1.0	1	ug/L	EPA 8260B	

Client ID: 9209-MW11d **Lab ID: C204846-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.247	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	44.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	3.04	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	9.68	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J
Lead - Total	3.31	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	2.05	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	4.62	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW23 **Lab ID: C204846-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	42.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	6.68	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.63	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	10.4	B	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	7.07	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	4.20	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	12.5	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	17.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW23d **Lab ID: C204846-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.754	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	35.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.746	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	4.03	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	16.8	B	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	3.32	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	4.05	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	6.65	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW24 **Lab ID: C204846-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	57.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.281	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloroform	7.3		1	0.18	1.0	5	ug/L	EPA 8260B	
Chromium - Total	7.54	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	7.09	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J

Client ID: 9209-MW24 **Lab ID: C204846-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Lead - Total	9.80	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.35	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	1.82	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Thallium - Total	0.190	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	8.38	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	58.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW28 **Lab ID: C204846-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	67.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	0.53	J	1	0.18	1.0	5	ug/L	EPA 8260B	
Chromium - Total	14.2		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.90	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.81	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J
Lead - Total	5.18	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	5.84	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.229	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	20.7	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	69.8		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW28d **Lab ID: C204846-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	19	J	1	1.2	5.0	100	ug/L	EPA 8260B	
Antimony - Total	1.46	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	28.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	10.1		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.34	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	13.3	B	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	4.99	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	9.42	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	4.73	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	106		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW29d **Lab ID: C204846-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.317	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	41.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	6.48	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	8.73	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J
Lead - Total	3.94	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	1.97	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	3.72	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	23.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW34 **Lab ID: C204846-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	14		1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.2		1	0.19	1.0	1	ug/L	EPA 8260B	
Antimony - Total	0.261	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	184		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.60	J	1	0.15	1.0	1	ug/L	EPA 8260B	

Client ID: 9209-MW34 **Lab ID: C204846-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Beryllium - Total	1.27		1	0.100	1.00	1	ug/L	EPA 6010C	
Chloroethane	0.62	J	1	0.23	1.0	10	ug/L	EPA 8260B	
Chloroform	0.60	J	1	0.18	1.0	5	ug/L	EPA 8260B	
Chromium - Total	25.4		1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	9.0		1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	4.77	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	23.8	B	1	1.60	10.0	10	ug/L	EPA 6010C	QB-01
Dichlorodifluoromethane	1.8	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Lead - Total	8.30	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Mercury - Total	0.255		1	0.170	0.200	0.2	ug/L	EPA 7470A	
Methylene chloride	7.6		1	0.23	1.0	1	ug/L	EPA 8260B	
Nickel - Total	13.2	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrachloroethene	2.2		1	0.17	1.0	1	ug/L	EPA 8260B	
Trichloroethene	3.3		1	0.15	1.0	1	ug/L	EPA 8260B	
Trichlorofluoromethane	0.92	J	1	0.24	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	37.4		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	53.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW34d **Lab ID: C204846-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.77	J	1	0.13	1.0	5	ug/L	EPA 8260B	
Antimony - Total	0.575	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	32.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	8.02	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	0.93	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Copper - Total	5.86	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J
Lead - Total	2.66	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	1.57	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	7.83	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW36d **Lab ID: C204846-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	8.0		1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	0.53	J	1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	53.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	2.26	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	4.0	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Copper - Total	10.5	B	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Dichlorodifluoromethane	1.4	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Lead - Total	2.44	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.23	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	2.20	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Tetrachloroethene	0.86	J	1	0.17	1.0	1	ug/L	EPA 8260B	
Trichloroethene	1.3		1	0.15	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	4.59	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 9209-DUP **Lab ID: C204846-15**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	2.3	J	1	0.13	1.0	5	ug/L	EPA 8260B	
Antimony - Total	1.22	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	66.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	

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Client ID: 9209-DUP								Lab ID: C204846-15	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Chloroform	0.58	J	1	0.18	1.0	5	ug/L	EPA 8260B	
Chromium - Total	5.53	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	6.45	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J
Lead - Total	2.10	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.20	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Trichloroethene	0.43	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	3.78	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	5.88	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-EQBlank								Lab ID: C204846-16	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Copper - Total	1.84	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J
Lead - Total	2.21	J	1	1.90	10.0	10	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

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

Lab Sample ID: C203991-01
Sampled: 04/24/12 16:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/02/12 20:52	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/02/12 20:52	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/02/12 20:52	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/02/12 20:52	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 20:52	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/02/12 20:52	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/02/12 20:52	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/02/12 20:52	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 20:52	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/02/12 20:52	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/02/12 20:52	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/02/12 20:52	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/02/12 20:52	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/02/12 20:52	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/02/12 20:52	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/02/12 20:52	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/02/12 20:52	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/02/12 20:52	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/02/12 20:52	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/02/12 20:52	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/02/12 20:52	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/02/12 20:52	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/02/12 20:52	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/02/12 20:52	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/02/12 20:52	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/02/12 20:52	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 20:52	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/02/12 20:52	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/02/12 20:52	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/02/12 20:52	JKG	

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

Lab Sample ID: C203991-01
Sampled: 04/24/12 16:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/02/12 20:52	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/02/12 20:52	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/02/12 20:52	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/02/12 20:52	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/02/12 20:52	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/02/12 20:52	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/02/12 20:52	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/02/12 20:52	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/02/12 20:52	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/02/12 20:52	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/02/12 20:52	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/02/12 20:52	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/02/12 20:52	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*103 %*	*51-122*	*2E02015*	*EPA 8260B*	*05/02/12 20:52*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*2E02015*	*EPA 8260B*	*05/02/12 20:52*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*101 %*	*67-127*	*2E02015*	*EPA 8260B*	*05/02/12 20:52*	*JKG*	

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Description:	9209-MW5R	**Lab Sample ID:**	C203991-01	**Received:**	04/25/12 13:10
Matrix:	Ground Water	**Sampled:**	04/24/12 16:00	**Work Order:**	C203991
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	04/27/12 14:55	KER	

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

Lab Sample ID: C203991-01
Sampled: 04/24/12 16:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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] ^	**0.411**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 12:39	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 11:29	JDH	
Barium [7440-39-3] ^	**97.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 11:29	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 11:29	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 11:29	JDH	
Chromium [7440-47-3] ^	**2.79**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 11:29	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 11:29	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 11:29	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 11:29	JDH	
Nickel [7440-02-0] ^	**2.47**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 11:29	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 12:39	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 11:29	JDH	
Thallium [7440-28-0] ^	**0.170**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 12:39	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 11:29	JDH	
Zinc [7440-66-6] ^	**4.28**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 11:29	JDH	

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

Lab Sample ID: C203991-01
Sampled: 04/24/12 16:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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	04/25/12 17:17	JOC	
Chemical Oxygen Demand [ECL-0035] ^	10000	U	ug/L	1	10000	10000	NE	SM 5220D	05/01/12 14:45	JOC	
Chloride [16887-00-6] ^	**2200**	J	ug/L	1	430	5000	NE	EPA 300.0	05/01/12 20:41	CCB	
Nitrate as N [14797-55-8] ^	**10000**		ug/L	1	25	100	10000	EPA 353.2	04/29/12 18:23	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	**10000**	D	ug/L	10	250	1000	NE	EPA 353.2	04/29/12 17:09	CCB	
Nitrite as N [14797-65-0] ^	**14**	JB	ug/L	1	3.0	100	1000	EPA 353.2	04/25/12 17:20	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**3400**	J	ug/L	1	40	5000	250000	EPA 300.0	05/01/12 20:41	CCB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	04/30/12 15:27	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**110000**		ug/L	1	12000	15000	NE	EPA 310.2	04/30/12 08:31	CCB	

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

Lab Sample ID: C203991-01
Sampled: 04/24/12 16:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	46	U	ug/L	1	46	50		SM18 3500-Fe D	05/07/12 08:18	RMM	Q

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

Lab Sample ID: C203991-01
Sampled: 04/24/12 16:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**321000**	D	ug/L	10	2700	25000	NE	RSK-175	04/27/12 14:02	GMB	
Ethane [74-84-0]	0.200	U	ug/L	1	0.200	2.00	NE	RSK-175	04/27/12 11:09	GMB	
Ethene [74-85-1]	0.540	U	ug/L	1	0.540	3.00	NE	RSK-175	04/27/12 11:09	GMB	
Methane [74-82-8]	0.430	U	ug/L	1	0.430	1.00	NE	RSK-175	04/27/12 11:09	GMB	

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

Lab Sample ID: C203991-01
Sampled: 04/24/12 16:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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]	40	U	ug/L	1	40	70	NE	VGC-13	05/07/12 16:40	JWJ	
Butyric Acid [107-92-6]	24	U	ug/L	1	24	70	NE	VGC-13	05/07/12 16:40	JWJ	
Hexanoic Acid [142-62-1]	87	U	ug/L	1	87	100		VGC-13	05/07/12 16:40	JWJ	
iso-Hexanoic Acid [646-07-1]	89	U	ug/L	1	89	100		VGC-13	05/07/12 16:40	JWJ	
iso-Pentanoic Acid [503-74-2]	62	U	ug/L	1	62	70		VGC-13	05/07/12 16:40	JWJ	QV-01
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	62	U	ug/L	1	62	140	NE	VGC-13	05/07/12 16:40	JWJ	
Pentanoic Acid [109-52-4]	48	U	ug/L	1	48	70		VGC-13	05/07/12 16:40	JWJ	
Propionic Acid [79-09-4]	57	U	ug/L	1	57	70	NE	VGC-13	05/07/12 16:40	JWJ	
Pyruvic Acid [127-17-3]	61	U	ug/L	1	61	70	NE	VGC-13	05/07/12 16:40	JWJ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*21000*	*1*	*20000*	*103 %*	*80-124*	*2E07022*	*VGC-13*	*05/07/12 16:40*	*JWJ*	

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

Lab Sample ID: C203991-01
Sampled: 04/24/12 16:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165]	**1100**		ug/L	1	280	1000	NE	SM18 5310B	04/30/12 14:43	JSW	

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:** C203991-02 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/24/12 17:10 | **Work Order:** C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/02/12 21:21	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/02/12 21:21	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/02/12 21:21	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/02/12 21:21	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 21:21	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/02/12 21:21	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/02/12 21:21	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/02/12 21:21	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 21:21	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**0.50**	J	ug/L	1	0.19	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/02/12 21:21	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/02/12 21:21	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/02/12 21:21	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/02/12 21:21	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/02/12 21:21	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/02/12 21:21	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/02/12 21:21	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/02/12 21:21	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/02/12 21:21	JKG	
Benzene [71-43-2] ^	**0.70**	J	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/02/12 21:21	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/02/12 21:21	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/02/12 21:21	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/02/12 21:21	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
Chlorobenzene [108-90-7] ^	**0.50**	J	ug/L	1	0.17	1.0	3	EPA 8260B	05/02/12 21:21	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/02/12 21:21	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/02/12 21:21	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/02/12 21:21	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.42**	J	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 21:21	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/02/12 21:21	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/02/12 21:21	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/02/12 21:21	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/02/12 21:21	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/02/12 21:21	JKG	

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Description: 9209-MW6 | **Lab Sample ID:** C203991-02 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/24/12 17:10 | **Work Order:** C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/02/12 21:21	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/02/12 21:21	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/02/12 21:21	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/02/12 21:21	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/02/12 21:21	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/02/12 21:21	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/02/12 21:21	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/02/12 21:21	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/02/12 21:21	JKG	
Vinyl chloride [75-01-4] ^	**0.56**	J	ug/L	1	0.32	1.0	1	EPA 8260B	05/02/12 21:21	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/02/12 21:21	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*51-122*	*2E02015*	*EPA 8260B*	*05/02/12 21:21*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*68-117*	*2E02015*	*EPA 8260B*	*05/02/12 21:21*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*67-127*	*2E02015*	*EPA 8260B*	*05/02/12 21:21*	*JKG*	

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

Lab Sample ID: C203991-02
Sampled: 04/24/12 17:10
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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	04/27/12 14:57	KER	

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Description: 9209-MW6 | **Lab Sample ID:** C203991-02 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/24/12 17:10 | **Work Order:** C203991

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] ^	**0.244**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 12:43	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 11:50	JDH	
Barium [7440-39-3] ^	**182**		ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 11:50	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 11:50	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 11:50	JDH	
Chromium [7440-47-3] ^	**3.49**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 11:50	JDH	
Cobalt [7440-48-4] ^	**54.9**		ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 11:50	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 11:50	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 11:50	JDH	
Nickel [7440-02-0] ^	**8.45**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 11:50	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 12:43	VLO	
Silver [7440-22-4] ^	**2.18**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 11:50	JDH	
Thallium [7440-28-0] ^	**0.134**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 12:43	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 11:50	JDH	
Zinc [7440-66-6] ^	**117**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 11:50	JDH	

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

Lab Sample ID: C203991-02
Sampled: 04/24/12 17:10
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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	04/25/12 17:17	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**32000**		ug/L	1	10000	10000	NE	SM 5220D	05/01/12 14:45	JOC	
Chloride [16887-00-6] ^	**97000**		ug/L	1	430	5000	NE	EPA 300.0	05/01/12 20:57	CCB	
Nitrate as N [14797-55-8] ^	**250**	J	ug/L	1	25	100	10000	EPA 353.2	04/29/12 18:23	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	**260**		ug/L	1	25	100	NE	EPA 353.2	04/29/12 17:11	CCB	
Nitrite as N [14797-65-0] ^	**12**	JB	ug/L	1	3.0	100	1000	EPA 353.2	04/25/12 17:24	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**3500**	J	ug/L	1	40	5000	250000	EPA 300.0	05/01/12 20:57	CCB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	04/30/12 15:27	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**190000**	D	ug/L	5	60000	75000	NE	EPA 310.2	04/30/12 08:32	CCB	

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

Lab Sample ID: C203991-02
Sampled: 04/24/12 17:10
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	46	U	ug/L	1	46	50		SM18 3500-Fe D	05/07/12 08:18	RMM	Q

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

Lab Sample ID: C203991-02
Sampled: 04/24/12 17:10
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**549000**	D	ug/L	10	2700	25000	NE	RSK-175	04/27/12 14:18	GMB	
Ethane [74-84-0]	0.200	U	ug/L	1	0.200	2.00	NE	RSK-175	04/27/12 11:25	GMB	
Ethene [74-85-1]	0.540	U	ug/L	1	0.540	3.00	NE	RSK-175	04/27/12 11:25	GMB	
Methane [74-82-8]	**5660**	D	ug/L	100	43.0	100	NE	RSK-175	04/27/12 14:34	GMB	

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

Lab Sample ID: C203991-02
Sampled: 04/24/12 17:10
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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]	40	U	ug/L	1	40	70	NE	VGC-13	05/07/12 17:03	JWJ	
Butyric Acid [107-92-6]	24	U	ug/L	1	24	70	NE	VGC-13	05/07/12 17:03	JWJ	
Hexanoic Acid [142-62-1]	87	U	ug/L	1	87	100		VGC-13	05/07/12 17:03	JWJ	
iso-Hexanoic Acid [646-07-1]	89	U	ug/L	1	89	100		VGC-13	05/07/12 17:03	JWJ	
iso-Pentanoic Acid [503-74-2]	62	U	ug/L	1	62	70		VGC-13	05/07/12 17:03	JWJ	QV-01
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	62	U	ug/L	1	62	140	NE	VGC-13	05/07/12 17:03	JWJ	
Pentanoic Acid [109-52-4]	**560**		ug/L	1	48	70		VGC-13	05/07/12 17:03	JWJ	
Propionic Acid [79-09-4]	**1700**		ug/L	1	57	70	NE	VGC-13	05/07/12 17:03	JWJ	
Pyruvic Acid [127-17-3]	61	U	ug/L	1	61	70	NE	VGC-13	05/07/12 17:03	JWJ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*22000*	*1*	*20000*	*110 %*	*80-124*	*2E07022*	*VGC-13*	*05/07/12 17:03*	*JWJ*	

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

Lab Sample ID: C203991-02
Sampled: 04/24/12 17:10
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165]	**4400**		ug/L	1	280	1000	NE	SM18 5310B	04/30/12 15:09	JSW	

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:** C203991-03 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/24/12 12:40 | **Work Order:** C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/02/12 21:51	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/02/12 21:51	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.75**	J	ug/L	1	0.13	1.0	5	EPA 8260B	05/02/12 21:51	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/02/12 21:51	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 21:51	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/02/12 21:51	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/02/12 21:51	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/02/12 21:51	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 21:51	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/02/12 21:51	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/02/12 21:51	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/02/12 21:51	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/02/12 21:51	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/02/12 21:51	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/02/12 21:51	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/02/12 21:51	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/02/12 21:51	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/02/12 21:51	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/02/12 21:51	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/02/12 21:51	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/02/12 21:51	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/02/12 21:51	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/02/12 21:51	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/02/12 21:51	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/02/12 21:51	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/02/12 21:51	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**23**		ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 21:51	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/02/12 21:51	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/02/12 21:51	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/02/12 21:51	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/02/12 21:51	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/02/12 21:51	JKG	

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Description: 9209-MW8 | **Lab Sample ID:** C203991-03 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/24/12 12:40 | **Work Order:** C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/02/12 21:51	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/02/12 21:51	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/02/12 21:51	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/02/12 21:51	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/02/12 21:51	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/02/12 21:51	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/02/12 21:51	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/02/12 21:51	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/02/12 21:51	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/02/12 21:51	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/02/12 21:51	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*2E02015*	*EPA 8260B*	*05/02/12 21:51*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*103 %*	*68-117*	*2E02015*	*EPA 8260B*	*05/02/12 21:51*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*67-127*	*2E02015*	*EPA 8260B*	*05/02/12 21:51*	*JKG*	

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

Lab Sample ID: C203991-03
Sampled: 04/24/12 12:40
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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	04/27/12 14:59	KER	

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Description: 9209-MW8 | **Lab Sample ID:** C203991-03 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/24/12 12:40 | **Work Order:** C203991

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] ^	**0.937**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 12:13	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 11:53	JDH	
Barium [7440-39-3] ^	**41.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 11:53	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 11:53	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 11:53	JDH	
Chromium [7440-47-3] ^	**1.21**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 11:53	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 11:53	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 11:53	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 11:53	JDH	
Nickel [7440-02-0] ^	**3.19**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 11:53	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 12:13	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 11:53	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 12:13	VLO	
Vanadium [7440-62-2] ^	**1.83**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 11:53	JDH	
Zinc [7440-66-6] ^	**515**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 11:53	JDH	

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Description: 9209-MW8 | **Lab Sample ID:** C203991-03 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/24/12 12:40 | **Work Order:** C203991

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	04/25/12 17:17	JOC	
Chemical Oxygen Demand [ECL-0035] ^	10000	U	ug/L	1	10000	10000	NE	SM 5220D	05/01/12 14:45	JOC	
Chloride [16887-00-6] ^	**12000**		ug/L	1	430	5000	NE	EPA 300.0	05/01/12 21:30	CCB	
Nitrate as N [14797-55-8] ^	**190**	J	ug/L	1	25	100	10000	EPA 353.2	04/29/12 18:23	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	**200**		ug/L	1	25	100	NE	EPA 353.2	04/29/12 17:14	CCB	
Nitrite as N [14797-65-0] ^	**8.2**	JB	ug/L	1	3.0	100	1000	EPA 353.2	04/25/12 17:22	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**2600**	J	ug/L	1	40	5000	250000	EPA 300.0	05/01/12 21:30	CCB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	04/30/12 15:27	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**74000**		ug/L	1	12000	15000	NE	EPA 310.2	04/30/12 08:33	CCB	

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

Lab Sample ID: C203991-03
Sampled: 04/24/12 12:40
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	46	U	ug/L	1	46	50		SM18 3500-Fe D	05/07/12 08:18	RMM	Q

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

Lab Sample ID: C203991-03
Sampled: 04/24/12 12:40
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**324000**	D	ug/L	10	2700	25000	NE	RSK-175	04/27/12 14:50	GMB	
Ethane [74-84-0]	0.200	U	ug/L	1	0.200	2.00	NE	RSK-175	04/27/12 11:41	GMB	
Ethene [74-85-1]	0.540	U	ug/L	1	0.540	3.00	NE	RSK-175	04/27/12 11:41	GMB	
Methane [74-82-8]	**1870**	D	ug/L	100	43.0	100	NE	RSK-175	04/27/12 15:06	GMB	

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Description: 9209-MW8 | **Lab Sample ID:** C203991-03 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/24/12 12:40 | **Work Order:** C203991

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]	40	U	ug/L	1	40	70	NE	VGC-13	05/07/12 17:27	JWJ	
Butyric Acid [107-92-6]	24	U	ug/L	1	24	70	NE	VGC-13	05/07/12 17:27	JWJ	
Hexanoic Acid [142-62-1]	87	U	ug/L	1	87	100		VGC-13	05/07/12 17:27	JWJ	
iso-Hexanoic Acid [646-07-1]	89	U	ug/L	1	89	100		VGC-13	05/07/12 17:27	JWJ	
iso-Pentanoic Acid [503-74-2]	62	U	ug/L	1	62	70		VGC-13	05/07/12 17:27	JWJ	QV-01
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	62	U	ug/L	1	62	140	NE	VGC-13	05/07/12 17:27	JWJ	
Pentanoic Acid [109-52-4]	48	U	ug/L	1	48	70		VGC-13	05/07/12 17:27	JWJ	
Propionic Acid [79-09-4]	57	U	ug/L	1	57	70	NE	VGC-13	05/07/12 17:27	JWJ	
Pyruvic Acid [127-17-3]	61	U	ug/L	1	61	70	NE	VGC-13	05/07/12 17:27	JWJ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*21000*	*1*	*20000*	*105 %*	*80-124*	*2E07022*	*VGC-13*	*05/07/12 17:27*	*JWJ*	

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

Lab Sample ID: C203991-03
Sampled: 04/24/12 12:40
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165]	**950**	J	ug/L	1	280	1000	NE	SM18 5310B	04/30/12 15:32	JSW	

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:** C203991-04 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 08:15 | **Work Order:** C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 02:40	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 02:40	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
1,1-Dichloroethane [75-34-3] ^	**9.8**		ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 02:40	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 02:40	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 02:40	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 02:40	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 02:40	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 02:40	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
1,2-Dichloropropane [78-87-5] ^	**0.68**	J	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 02:40	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**8.1**		ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 02:40	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 02:40	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 02:40	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 02:40	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 02:40	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 02:40	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 02:40	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 02:40	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 02:40	JKG	
Benzene [71-43-2] ^	**1.8**		ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 02:40	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 02:40	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 02:40	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 02:40	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 02:40	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 02:40	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 02:40	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 02:40	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**15**		ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 02:40	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 02:40	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 02:40	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 02:40	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 02:40	JKG	
Ethylbenzene [100-41-4] ^	**0.54**	J	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 02:40	JKG	

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Description: 9209-MW9 | **Lab Sample ID:** C203991-04 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 08:15 | **Work Order:** C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 02:40	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 02:40	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 02:40	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 02:40	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 02:40	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 02:40	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 02:40	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 02:40	JKG	
Trichloroethene [79-01-6] ^	**0.47**	J	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 02:40	JKG	
Vinyl chloride [75-01-4] ^	**19**		ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 02:40	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 02:40	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*2E04022*	*EPA 8260B*	*05/05/12 02:40*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*2E04022*	*EPA 8260B*	*05/05/12 02:40*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*67-127*	*2E04022*	*EPA 8260B*	*05/05/12 02:40*	*JKG*	

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

Lab Sample ID: C203991-04
Sampled: 04/25/12 08:15
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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	04/27/12 15:01	KER	

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Description: 9209-MW9 | **Lab Sample ID:** C203991-04 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 08:15 | **Work Order:** C203991

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	04/30/12 12:46	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 11:55	JDH	
Barium [7440-39-3] ^	**176**		ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 11:55	JDH	
Beryllium [7440-41-7] ^	**0.220**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 11:55	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 11:55	JDH	
Chromium [7440-47-3] ^	**5.68**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 11:55	JDH	
Cobalt [7440-48-4] ^	**4.81**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 11:55	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 11:55	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 11:55	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 11:55	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 12:46	VLO	
Silver [7440-22-4] ^	**2.72**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 11:55	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 12:46	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 11:55	JDH	
Zinc [7440-66-6] ^	**13.5**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 11:55	JDH	

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Description: 9209-MW9 | **Lab Sample ID:** C203991-04 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 08:15 | **Work Order:** C203991

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] ^	**5400**		ug/L	1	2000	2000	NE	SM 5210B	04/26/12 16:45	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**34000**		ug/L	1	10000	10000	NE	SM 5220D	05/01/12 14:45	JOC	
Chloride [16887-00-6] ^	**18000**		ug/L	1	430	5000	NE	EPA 300.0	05/01/12 21:47	CCB	
Nitrate as N [14797-55-8] ^	**79**	J	ug/L	1	25	100	10000	EPA 353.2	04/29/12 18:23	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	**90**	J	ug/L	1	25	100	NE	EPA 353.2	04/29/12 17:20	CCB	
Nitrite as N [14797-65-0] ^	**11**	JB	ug/L	1	3.0	100	1000	EPA 353.2	04/25/12 17:21	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**2800**	J	ug/L	1	40	5000	250000	EPA 300.0	05/01/12 21:47	CCB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	04/30/12 15:27	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**250000**	D	ug/L	2	24000	30000	NE	EPA 310.2	04/30/12 08:34	CCB	

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

Lab Sample ID: C203991-04
Sampled: 04/25/12 08:15
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	**7800**		ug/L	1	230	250		SM18 3500-Fe D	05/07/12 08:18	RMM	Q

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

Lab Sample ID: C203991-04
Sampled: 04/25/12 08:15
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**503000**	D	ug/L	10	2700	25000	NE	RSK-175	04/27/12 15:22	GMB	
Ethane [74-84-0]	0.200	U	ug/L	1	0.200	2.00	NE	RSK-175	04/27/12 11:57	GMB	
Ethene [74-85-1]	**1.59**	J	ug/L	1	0.540	3.00	NE	RSK-175	04/27/12 11:57	GMB	
Methane [74-82-8]	**2810**	D	ug/L	100	43.0	100	NE	RSK-175	04/27/12 15:38	GMB	

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Description: 9209-MW9 | **Lab Sample ID:** C203991-04 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 08:15 | **Work Order:** C203991

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]	40	U	ug/L	1	40	70	NE	VGC-13	05/07/12 17:51	JWJ	
Butyric Acid [107-92-6]	24	U	ug/L	1	24	70	NE	VGC-13	05/07/12 17:51	JWJ	
Hexanoic Acid [142-62-1]	87	U	ug/L	1	87	100		VGC-13	05/07/12 17:51	JWJ	
iso-Hexanoic Acid [646-07-1]	89	U	ug/L	1	89	100		VGC-13	05/07/12 17:51	JWJ	
iso-Pentanoic Acid [503-74-2]	62	U	ug/L	1	62	70		VGC-13	05/07/12 17:51	JWJ	QV-01
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	62	U	ug/L	1	62	140	NE	VGC-13	05/07/12 17:51	JWJ	
Pentanoic Acid [109-52-4]	48	U	ug/L	1	48	70		VGC-13	05/07/12 17:51	JWJ	
Propionic Acid [79-09-4]	**1700**		ug/L	1	57	70	NE	VGC-13	05/07/12 17:51	JWJ	
Pyruvic Acid [127-17-3]	61	U	ug/L	1	61	70	NE	VGC-13	05/07/12 17:51	JWJ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*21000*	*1*	*20000*	*106 %*	*80-124*	*2E07022*	*VGC-13*	*05/07/12 17:51*	*JWJ*	

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

Lab Sample ID: C203991-04
Sampled: 04/25/12 08:15
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165]	**6100**		ug/L	1	280	1000	NE	SM18 5310B	04/30/12 15:58	JSW	

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:** C203991-05 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 09:00 | **Work Order:** C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 03:10	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 03:10	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
1,1-Dichloroethane [75-34-3] ^	**3.2**	J	ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 03:10	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 03:10	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 03:10	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 03:10	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 03:10	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 03:10	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 03:10	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**1.0**		ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 03:10	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 03:10	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 03:10	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 03:10	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 03:10	JKG	
Acetone [67-64-1] ^	**10**	J	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 03:10	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 03:10	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 03:10	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 03:10	JKG	
Benzene [71-43-2] ^	**2.3**		ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 03:10	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 03:10	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 03:10	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 03:10	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 03:10	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 03:10	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 03:10	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 03:10	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**44**		ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 03:10	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 03:10	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 03:10	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 03:10	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 03:10	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 03:10	JKG	

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Description: 9209-MW10 | **Lab Sample ID:** C203991-05 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 09:00 | **Work Order:** C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 03:10	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 03:10	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 03:10	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 03:10	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 03:10	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 03:10	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
Tetrachloroethene [127-18-4] ^	**2.9**		ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 03:10	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 03:10	JKG	
Trichloroethene [79-01-6] ^	**2.5**		ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 03:10	JKG	
Vinyl chloride [75-01-4] ^	**1.4**		ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 03:10	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 03:10	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*51-122*	*2E04022*	*EPA 8260B*	*05/05/12 03:10*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*2E04022*	*EPA 8260B*	*05/05/12 03:10*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*67-127*	*2E04022*	*EPA 8260B*	*05/05/12 03:10*	*JKG*	

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Description:	9209-MW10	**Lab Sample ID:**	C203991-05	**Received:**	04/25/12 13:10
Matrix:	Ground Water	**Sampled:**	04/25/12 09:00	**Work Order:**	C203991
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] ^	**0.538**		ug/L	1	0.170	0.200	0.2	EPA 7470A	04/27/12 14:23	KER	

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Description: 9209-MW10 | **Lab Sample ID:** C203991-05 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 09:00 | **Work Order:** C203991

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	04/30/12 12:50	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 11:58	JDH	
Barium [7440-39-3] ^	**34.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 11:58	JDH	
Beryllium [7440-41-7] ^	**0.320**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 11:58	JDH	
Cadmium [7440-43-9] ^	**0.438**	J	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 11:58	JDH	
Chromium [7440-47-3] ^	**1.79**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 11:58	JDH	
Cobalt [7440-48-4] ^	**2.04**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 11:58	JDH	
Copper [7440-50-8] ^	**4.81**	J	ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 11:58	JDH	
Lead [7439-92-1] ^	**2.64**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 11:58	JDH	
Nickel [7440-02-0] ^	**2.25**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 11:58	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 12:50	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 11:58	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 12:50	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 11:58	JDH	
Zinc [7440-66-6] ^	**21.7**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 11:58	JDH	

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Description: 9209-MW10 | **Lab Sample ID:** C203991-05 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 09:00 | **Work Order:** C203991

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	04/26/12 16:45	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**10000**		ug/L	1	10000	10000	NE	SM 5220D	05/01/12 14:45	JOC	
Chloride [16887-00-6] ^	**3500**	J	ug/L	1	430	5000	NE	EPA 300.0	05/01/12 22:03	CCB	
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	04/29/12 18:23	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	25	U	ug/L	1	25	100	NE	EPA 353.2	04/29/12 17:22	CCB	
Nitrite as N [14797-65-0] ^	**9.7**	JB	ug/L	1	3.0	100	1000	EPA 353.2	04/25/12 17:22	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**3100**	J	ug/L	1	40	5000	250000	EPA 300.0	05/01/12 22:03	CCB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	04/30/12 15:27	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**120000**		ug/L	1	12000	15000	NE	EPA 310.2	04/30/12 08:35	CCB	

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

Lab Sample ID: C203991-05
Sampled: 04/25/12 09:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	**170**		ug/L	1	46	50		SM18 3500-Fe D	05/07/12 08:18	RMM	Q

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

Lab Sample ID: C203991-05
Sampled: 04/25/12 09:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**832000**	D	ug/L	10	2700	25000	NE	RSK-175	04/27/12 15:54	GMB	
Ethane [74-84-0]	0.200	U	ug/L	1	0.200	2.00	NE	RSK-175	04/27/12 12:13	GMB	
Ethene [74-85-1]	0.540	U	ug/L	1	0.540	3.00	NE	RSK-175	04/27/12 12:13	GMB	
Methane [74-82-8]	**10300**	D	ug/L	500	215	500	NE	RSK-175	04/27/12 16:10	GMB	

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

Lab Sample ID: C203991-05
Sampled: 04/25/12 09:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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]	**260**		ug/L	1	40	70	NE	VGC-13	05/07/12 18:14	JWJ	
Butyric Acid [107-92-6]	24	U	ug/L	1	24	70	NE	VGC-13	05/07/12 18:14	JWJ	
Hexanoic Acid [142-62-1]	**590**		ug/L	1	87	100		VGC-13	05/07/12 18:14	JWJ	
iso-Hexanoic Acid [646-07-1]	89	U	ug/L	1	89	100		VGC-13	05/07/12 18:14	JWJ	
iso-Pentanoic Acid [503-74-2]	62	U	ug/L	1	62	70		VGC-13	05/07/12 18:14	JWJ	QV-01
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	**170**		ug/L	1	62	140	NE	VGC-13	05/07/12 18:14	JWJ	
Pentanoic Acid [109-52-4]	48	U	ug/L	1	48	70		VGC-13	05/07/12 18:14	JWJ	
Propionic Acid [79-09-4]	57	U	ug/L	1	57	70	NE	VGC-13	05/07/12 18:14	JWJ	
Pyruvic Acid [127-17-3]	61	U	ug/L	1	61	70	NE	VGC-13	05/07/12 18:14	JWJ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*21000*	*1*	*20000*	*106 %*	*80-124*	*2E07022*	*VGC-13*	*05/07/12 18:14*	*JWJ*	

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

Lab Sample ID: C203991-05
Sampled: 04/25/12 09:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165]	**3300**		ug/L	1	280	1000	NE	SM18 5310B	04/30/12 16:23	JSW	

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:** C203991-06 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 07:00 | **Work Order:** C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 03:39	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 03:39	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 03:39	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 03:39	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 03:39	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 03:39	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 03:39	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 03:39	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 03:39	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 03:39	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 03:39	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 03:39	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 03:39	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 03:39	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 03:39	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 03:39	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 03:39	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 03:39	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 03:39	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 03:39	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 03:39	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 03:39	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 03:39	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 03:39	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 03:39	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 03:39	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 03:39	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 03:39	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 03:39	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 03:39	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 03:39	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 03:39	JKG	

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Description: 9209-MW11 | **Lab Sample ID:** C203991-06 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 07:00 | **Work Order:** C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 03:39	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 03:39	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 03:39	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 03:39	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 03:39	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 03:39	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 03:39	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 03:39	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 03:39	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 03:39	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 03:39	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*2E04022*	*EPA 8260B*	*05/05/12 03:39*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*97 %*	*68-117*	*2E04022*	*EPA 8260B*	*05/05/12 03:39*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*67-127*	*2E04022*	*EPA 8260B*	*05/05/12 03:39*	*JKG*	

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Description:	9209-MW11	**Lab Sample ID:**	C203991-06	**Received:**	04/25/12 13:10
Matrix:	Ground Water	**Sampled:**	04/25/12 07:00	**Work Order:**	C203991
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	04/27/12 15:04	KER	

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Description: 9209-MW11 | **Lab Sample ID:** C203991-06 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 07:00 | **Work Order:** C203991

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	04/30/12 12:54	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 12:00	JDH	
Barium [7440-39-3] ^	**65.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 12:00	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 12:00	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 12:00	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 12:00	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 12:00	JDH	
Copper [7440-50-8] ^	**2.37**	J	ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 12:00	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:00	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 12:00	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 12:54	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:00	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 12:54	VLO	
Vanadium [7440-62-2] ^	**3.23**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 12:00	JDH	
Zinc [7440-66-6] ^	**12.1**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 12:00	JDH	

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Description: 9209-MW11 | **Lab Sample ID:** C203991-06 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 07:00 | **Work Order:** C203991

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	04/26/12 16:45	JOC	
Chemical Oxygen Demand [ECL-0035] ^	10000	U	ug/L	1	10000	10000	NE	SM 5220D	05/01/12 14:45	JOC	
Chloride [16887-00-6] ^	**3100**	J	ug/L	1	430	5000	NE	EPA 300.0	05/01/12 22:20	CCB	
Nitrate as N [14797-55-8] ^	**86**	J	ug/L	1	25	100	10000	EPA 353.2	04/29/12 18:23	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	**94**	J	ug/L	1	25	100	NE	EPA 353.2	04/29/12 17:24	CCB	
Nitrite as N [14797-65-0] ^	**8.3**	JB	ug/L	1	3.0	100	1000	EPA 353.2	04/25/12 17:23	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**1700**	J	ug/L	1	40	5000	250000	EPA 300.0	05/01/12 22:20	CCB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	04/30/12 15:27	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**22000**		ug/L	1	12000	15000	NE	EPA 310.2	04/30/12 08:37	CCB	

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

Lab Sample ID: C203991-06
Sampled: 04/25/12 07:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	46	U	ug/L	1	46	50		SM18 3500-Fe D	05/07/12 08:18	RMM	Q

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

Lab Sample ID: C203991-06
Sampled: 04/25/12 07:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**161000**	D	ug/L	10	2700	25000	NE	RSK-175	04/27/12 16:26	GMB	
Ethane [74-84-0]	0.200	U	ug/L	1	0.200	2.00	NE	RSK-175	04/27/12 12:29	GMB	
Ethene [74-85-1]	0.540	U	ug/L	1	0.540	3.00	NE	RSK-175	04/27/12 12:29	GMB	
Methane [74-82-8]	0.430	U	ug/L	1	0.430	1.00	NE	RSK-175	04/27/12 12:29	GMB	

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

Lab Sample ID: C203991-06
Sampled: 04/25/12 07:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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]	40	U	ug/L	1	40	70	NE	VGC-13	05/07/12 18:38	JWJ	
Butyric Acid [107-92-6]	24	U	ug/L	1	24	70	NE	VGC-13	05/07/12 18:38	JWJ	
Hexanoic Acid [142-62-1]	87	U	ug/L	1	87	100		VGC-13	05/07/12 18:38	JWJ	
iso-Hexanoic Acid [646-07-1]	89	U	ug/L	1	89	100		VGC-13	05/07/12 18:38	JWJ	
iso-Pentanoic Acid [503-74-2]	62	U	ug/L	1	62	70		VGC-13	05/07/12 18:38	JWJ	QV-01
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	**130**	J	ug/L	1	62	140	NE	VGC-13	05/07/12 18:38	JWJ	
Pentanoic Acid [109-52-4]	48	U	ug/L	1	48	70		VGC-13	05/07/12 18:38	JWJ	
Propionic Acid [79-09-4]	57	U	ug/L	1	57	70	NE	VGC-13	05/07/12 18:38	JWJ	
Pyruvic Acid [127-17-3]	61	U	ug/L	1	61	70	NE	VGC-13	05/07/12 18:38	JWJ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*21000*	*1*	*20000*	*105 %*	*80-124*	*2E07022*	*VGC-13*	*05/07/12 18:38*	*JWJ*	

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

Lab Sample ID: C203991-06
Sampled: 04/25/12 07:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165]	**760**	J	ug/L	1	280	1000	NE	SM18 5310B	04/30/12 17:14	JSW	

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:** C203991-07 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 09:30 | **Work Order:** C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 04:09	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 04:09	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 04:09	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 04:09	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 04:09	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 04:09	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 04:09	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 04:09	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 04:09	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 04:09	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 04:09	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 04:09	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 04:09	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 04:09	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 04:09	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 04:09	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 04:09	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 04:09	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 04:09	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 04:09	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 04:09	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 04:09	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 04:09	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 04:09	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 04:09	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 04:09	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 04:09	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 04:09	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 04:09	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 04:09	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 04:09	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 04:09	JKG	

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Description: 9209-MW22 | **Lab Sample ID:** C203991-07 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 09:30 | **Work Order:** C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 04:09	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 04:09	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 04:09	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 04:09	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 04:09	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 04:09	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 04:09	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 04:09	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 04:09	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 04:09	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 04:09	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*2E04022*	*EPA 8260B*	*05/05/12 04:09*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*68-117*	*2E04022*	*EPA 8260B*	*05/05/12 04:09*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*67-127*	*2E04022*	*EPA 8260B*	*05/05/12 04:09*	*JKG*	

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

Lab Sample ID: C203991-07
Sampled: 04/25/12 09:30
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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	04/27/12 15:06	KER	

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Description: 9209-MW22 | **Lab Sample ID:** C203991-07 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 09:30 | **Work Order:** C203991

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	04/30/12 12:58	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 12:02	JDH	
Barium [7440-39-3] ^	**61.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 12:02	JDH	
Beryllium [7440-41-7] ^	**0.224**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 12:02	JDH	
Cadmium [7440-43-9] ^	**4.78**		ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 12:02	JDH	
Chromium [7440-47-3] ^	**4.77**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 12:02	JDH	
Cobalt [7440-48-4] ^	**63.8**		ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 12:02	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 12:02	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:02	JDH	
Nickel [7440-02-0] ^	**14.0**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 12:02	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 12:58	VLO	
Silver [7440-22-4] ^	**2.56**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:02	JDH	
Thallium [7440-28-0] ^	**0.162**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 12:58	VLO	
Vanadium [7440-62-2] ^	**33.1**		ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 12:02	JDH	
Zinc [7440-66-6] ^	**18.4**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 12:02	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:** C203991-08 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 10:50 | **Work Order:** C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 04:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 04:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 04:38	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 04:38	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 04:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 04:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 04:38	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 04:38	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 04:38	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 04:38	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 04:38	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 04:38	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 04:38	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 04:38	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 04:38	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 04:38	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 04:38	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 04:38	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 04:38	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 04:38	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 04:38	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 04:38	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 04:38	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 04:38	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 04:38	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 04:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 04:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 04:38	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 04:38	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 04:38	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 04:38	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 04:38	JKG	

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Description: 9209-MW30 | **Lab Sample ID:** C203991-08 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 10:50 | **Work Order:** C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 04:38	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 04:38	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 04:38	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 04:38	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 04:38	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 04:38	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 04:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 04:38	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 04:38	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 04:38	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 04:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*2E04022*	*EPA 8260B*	*05/05/12 04:38*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*95 %*	*68-117*	*2E04022*	*EPA 8260B*	*05/05/12 04:38*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*67-127*	*2E04022*	*EPA 8260B*	*05/05/12 04:38*	*JKG*	

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Description:	9209-MW30	**Lab Sample ID:**	C203991-08	**Received:**	04/25/12 13:10
Matrix:	Ground Water	**Sampled:**	04/25/12 10:50	**Work Order:**	C203991
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	04/27/12 15:08	KER	

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Description: 9209-MW30 | **Lab Sample ID:** C203991-08 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 10:50 | **Work Order:** C203991

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	04/30/12 13:01	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 12:04	JDH	
Barium [7440-39-3] ^	**169**		ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 12:04	JDH	
Beryllium [7440-41-7] ^	**0.773**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 12:04	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 12:04	JDH	
Chromium [7440-47-3] ^	**58.0**		ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 12:04	JDH	
Cobalt [7440-48-4] ^	**9.94**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 12:04	JDH	
Copper [7440-50-8] ^	**73.9**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 12:04	JDH	
Lead [7439-92-1] ^	**9.17**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:04	JDH	
Nickel [7440-02-0] ^	**22.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 12:04	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 13:01	VLO	
Silver [7440-22-4] ^	**2.15**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:04	JDH	
Thallium [7440-28-0] ^	**0.360**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 13:01	VLO	
Vanadium [7440-62-2] ^	**51.7**		ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 12:04	JDH	
Zinc [7440-66-6] ^	**54.7**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 12:04	JDH	

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

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Description: 9209-MW31 | **Lab Sample ID:** C203991-09 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 10:00 | **Work Order:** C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 05:08	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 05:08	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 05:08	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 05:08	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 05:08	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 05:08	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 05:08	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 05:08	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 05:08	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 05:08	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 05:08	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 05:08	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 05:08	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 05:08	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 05:08	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 05:08	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 05:08	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 05:08	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 05:08	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 05:08	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 05:08	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 05:08	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 05:08	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 05:08	JKG	
Chloroform [67-66-3] ^	**1.3**	J	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 05:08	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 05:08	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 05:08	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 05:08	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 05:08	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 05:08	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 05:08	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 05:08	JKG	

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Description: 9209-MW31 | **Lab Sample ID:** C203991-09 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 10:00 | **Work Order:** C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 05:08	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 05:08	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 05:08	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 05:08	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 05:08	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 05:08	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 05:08	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 05:08	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 05:08	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 05:08	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 05:08	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*2E04022*	*EPA 8260B*	*05/05/12 05:08*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*2E04022*	*EPA 8260B*	*05/05/12 05:08*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*67-127*	*2E04022*	*EPA 8260B*	*05/05/12 05:08*	*JKG*	

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

Lab Sample ID: C203991-09
Sampled: 04/25/12 10:00
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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	04/27/12 15:10	KER	

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Description: 9209-MW31 | **Lab Sample ID:** C203991-09 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 10:00 | **Work Order:** C203991

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	04/30/12 13:05	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 12:17	JDH	
Barium [7440-39-3] ^	**33.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 12:17	JDH	
Beryllium [7440-41-7] ^	**0.122**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 12:17	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 12:17	JDH	
Chromium [7440-47-3] ^	**13.1**		ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 12:17	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 12:17	JDH	
Copper [7440-50-8] ^	**6.71**	J	ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 12:17	JDH	
Lead [7439-92-1] ^	**3.56**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:17	JDH	
Nickel [7440-02-0] ^	**5.40**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 12:17	JDH	
Selenium [7782-49-2] ^	**0.904**	J	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 13:05	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:17	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 13:05	VLO	
Vanadium [7440-62-2] ^	**9.25**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 12:17	JDH	
Zinc [7440-66-6] ^	**33.1**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 12:17	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: C203991-10
Sampled: 04/24/12 09:30
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/02/12 22:20	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/02/12 22:20	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/02/12 22:20	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/02/12 22:20	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 22:20	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/02/12 22:20	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/02/12 22:20	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/02/12 22:20	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 22:20	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/02/12 22:20	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/02/12 22:20	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/02/12 22:20	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/02/12 22:20	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/02/12 22:20	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/02/12 22:20	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/02/12 22:20	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/02/12 22:20	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/02/12 22:20	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/02/12 22:20	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/02/12 22:20	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/02/12 22:20	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/02/12 22:20	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/02/12 22:20	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/02/12 22:20	JKG	
Chloroform [67-66-3] ^	**23**		ug/L	1	0.18	1.0	5	EPA 8260B	05/02/12 22:20	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/02/12 22:20	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 22:20	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/02/12 22:20	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/02/12 22:20	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/02/12 22:20	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/02/12 22:20	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/02/12 22:20	JKG	

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

Lab Sample ID: C203991-10
Sampled: 04/24/12 09:30
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/02/12 22:20	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/02/12 22:20	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/02/12 22:20	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/02/12 22:20	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/02/12 22:20	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/02/12 22:20	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/02/12 22:20	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/02/12 22:20	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/02/12 22:20	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/02/12 22:20	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/02/12 22:20	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*51-122*	*2E02015*	*EPA 8260B*	*05/02/12 22:20*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*2E02015*	*EPA 8260B*	*05/02/12 22:20*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*67-127*	*2E02015*	*EPA 8260B*	*05/02/12 22:20*	*JKG*	

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Description:	9209-MW31d	**Lab Sample ID:**	C203991-10	**Received:**	04/25/12 13:10
Matrix:	Ground Water	**Sampled:**	04/24/12 09:30	**Work Order:**	C203991
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	04/27/12 15:12	KER	

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

Lab Sample ID: C203991-10
Sampled: 04/24/12 09:30
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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] ^	**1.68**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 13:34	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 12:19	JDH	
Barium [7440-39-3] ^	**17.1**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 12:19	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 12:19	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 12:19	JDH	
Chromium [7440-47-3] ^	**6.79**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 12:19	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 12:19	JDH	
Copper [7440-50-8] ^	**26.5**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 12:19	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:19	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 12:19	JDH	
Selenium [7782-49-2] ^	**0.944**	J	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 13:34	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:19	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 13:34	VLO	
Vanadium [7440-62-2] ^	**7.62**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 12:19	JDH	
Zinc [7440-66-6] ^	**12.6**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 12:19	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:** C203991-11 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 10:40 | **Work Order:** C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 05:37	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 05:37	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 05:37	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 05:37	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 05:37	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 05:37	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 05:37	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 05:37	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 05:37	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 05:37	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 05:37	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 05:37	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 05:37	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 05:37	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 05:37	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 05:37	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 05:37	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 05:37	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 05:37	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 05:37	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 05:37	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 05:37	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 05:37	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 05:37	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 05:37	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 05:37	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 05:37	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 05:37	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 05:37	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 05:37	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 05:37	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 05:37	JKG	

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Description: 9209-MW32 | **Lab Sample ID:** C203991-11 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 10:40 | **Work Order:** C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 05:37	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 05:37	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 05:37	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 05:37	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 05:37	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 05:37	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 05:37	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 05:37	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 05:37	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 05:37	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 05:37	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*2E04022*	*EPA 8260B*	*05/05/12 05:37*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*2E04022*	*EPA 8260B*	*05/05/12 05:37*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*67-127*	*2E04022*	*EPA 8260B*	*05/05/12 05:37*	*JKG*	

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

Lab Sample ID: C203991-11
Sampled: 04/25/12 10:40
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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	04/27/12 15:15	KER	

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Description: 9209-MW32 | **Lab Sample ID:** C203991-11 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 10:40 | **Work Order:** C203991

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] ^	**0.393**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 13:38	VLO	
Arsenic [7440-38-2] ^	**3.37**	J	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 12:21	JDH	
Barium [7440-39-3] ^	**15.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 12:21	JDH	
Beryllium [7440-41-7] ^	**0.261**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 12:21	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 12:21	JDH	
Chromium [7440-47-3] ^	**1.92**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 12:21	JDH	
Cobalt [7440-48-4] ^	**2.34**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 12:21	JDH	
Copper [7440-50-8] ^	**8.49**	J	ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 12:21	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:21	JDH	
Nickel [7440-02-0] ^	**1.96**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 12:21	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 13:38	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:21	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 13:38	VLO	
Vanadium [7440-62-2] ^	**5.71**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 12:21	JDH	
Zinc [7440-66-6] ^	**6.22**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 12:21	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-MWTB1a
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C203991-12
Sampled: 04/25/12 10:30
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 06:06	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 06:06	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 06:06	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 06:06	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 06:06	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 06:06	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 06:06	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 06:06	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 06:06	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 06:06	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 06:06	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 06:06	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 06:06	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 06:06	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 06:06	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 06:06	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 06:06	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 06:06	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 06:06	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 06:06	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 06:06	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 06:06	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 06:06	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 06:06	JKG	
Chloroform [67-66-3] ^	**0.90**	J	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 06:06	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 06:06	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 06:06	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 06:06	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 06:06	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 06:06	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 06:06	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 06:06	JKG	

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Description: 9209-MWTB1a
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C203991-12
Sampled: 04/25/12 10:30
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 06:06	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 06:06	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 06:06	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 06:06	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 06:06	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 06:06	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 06:06	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 06:06	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 06:06	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 06:06	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 06:06	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*51-122*	*2E04022*	*EPA 8260B*	*05/05/12 06:06*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*2E04022*	*EPA 8260B*	*05/05/12 06:06*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*67-127*	*2E04022*	*EPA 8260B*	*05/05/12 06:06*	*JKG*	

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Description:	9209-MWTB1a	**Lab Sample ID:**	C203991-12	**Received:**	04/25/12 13:10
Matrix:	Ground Water	**Sampled:**	04/25/12 10:30	**Work Order:**	C203991
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] ^	**0.348**		ug/L	1	0.170	0.200	0.2	EPA 7470A	04/27/12 15:23	KER	

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Description: 9209-MWTB1a
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C203991-12
Sampled: 04/25/12 10:30
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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	04/30/12 13:41	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 12:23	JDH	
Barium [7440-39-3] ^	**190**		ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 12:23	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 12:23	JDH	
Cadmium [7440-43-9] ^	**1.50**		ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 12:23	JDH	
Chromium [7440-47-3] ^	**29.0**		ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 12:23	JDH	
Cobalt [7440-48-4] ^	**22.0**		ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 12:23	JDH	
Copper [7440-50-8] ^	**158**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 12:23	JDH	
Lead [7439-92-1] ^	**7.33**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:23	JDH	
Nickel [7440-02-0] ^	**27.9**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 12:23	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 13:41	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:23	JDH	
Thallium [7440-28-0] ^	**0.186**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 13:41	VLO	
Vanadium [7440-62-2] ^	**61.3**		ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 12:23	JDH	
Zinc [7440-66-6] ^	**89.4**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 12:23	JDH	

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

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Description: 9209-MWTB1ad
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C203991-13
Sampled: 04/24/12 10:30
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/02/12 22:50	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/02/12 22:50	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/02/12 22:50	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/02/12 22:50	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 22:50	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/02/12 22:50	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/02/12 22:50	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/02/12 22:50	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 22:50	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/02/12 22:50	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/02/12 22:50	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/02/12 22:50	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/02/12 22:50	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/02/12 22:50	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/02/12 22:50	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/02/12 22:50	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/02/12 22:50	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/02/12 22:50	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/02/12 22:50	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/02/12 22:50	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/02/12 22:50	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/02/12 22:50	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/02/12 22:50	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/02/12 22:50	JKG	
Chloroform [67-66-3] ^	**23**		ug/L	1	0.18	1.0	5	EPA 8260B	05/02/12 22:50	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/02/12 22:50	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/02/12 22:50	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/02/12 22:50	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/02/12 22:50	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/02/12 22:50	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/02/12 22:50	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/02/12 22:50	JKG	

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Description: 9209-MWTB1ad
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C203991-13
Sampled: 04/24/12 10:30
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/02/12 22:50	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/02/12 22:50	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/02/12 22:50	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/02/12 22:50	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/02/12 22:50	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/02/12 22:50	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/02/12 22:50	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/02/12 22:50	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/02/12 22:50	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/02/12 22:50	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/02/12 22:50	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*51-122*	*2E02015*	*EPA 8260B*	*05/02/12 22:50*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*68-117*	*2E02015*	*EPA 8260B*	*05/02/12 22:50*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*67-127*	*2E02015*	*EPA 8260B*	*05/02/12 22:50*	*JKG*	

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Description: 9209-MWTB1ad
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C203991-13
Sampled: 04/24/12 10:30
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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	04/27/12 15:25	KER	

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Description: 9209-MWTB1ad
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C203991-13
Sampled: 04/24/12 10:30
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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] ^	**0.928**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 13:45	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 12:25	JDH	
Barium [7440-39-3] ^	**15.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 12:25	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 12:25	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 12:25	JDH	
Chromium [7440-47-3] ^	**15.0**		ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 12:25	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 12:25	JDH	
Copper [7440-50-8] ^	**11.5**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 12:25	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:25	JDH	
Nickel [7440-02-0] ^	**3.87**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 12:25	JDH	
Selenium [7782-49-2] ^	**1.23**	J	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 13:45	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:25	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 13:45	VLO	
Vanadium [7440-62-2] ^	**6.58**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 12:25	JDH	
Zinc [7440-66-6] ^	**8.41**	J	ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 12:25	JDH	

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

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Description: 9209-MW33 | **Lab Sample ID:** C203991-14 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 09:50 | **Work Order:** C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 06:36	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 06:36	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 06:36	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 06:36	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 06:36	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 06:36	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 06:36	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 06:36	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 06:36	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 06:36	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 06:36	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 06:36	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 06:36	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 06:36	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 06:36	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 06:36	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 06:36	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 06:36	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 06:36	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 06:36	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 06:36	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 06:36	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 06:36	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 06:36	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 06:36	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 06:36	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 06:36	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 06:36	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 06:36	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 06:36	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 06:36	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 06:36	JKG	

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Description: 9209-MW33 | **Lab Sample ID:** C203991-14 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 09:50 | **Work Order:** C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 06:36	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 06:36	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 06:36	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 06:36	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 06:36	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 06:36	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 06:36	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 06:36	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 06:36	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 06:36	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 06:36	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*2E04022*	*EPA 8260B*	*05/05/12 06:36*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*2E04022*	*EPA 8260B*	*05/05/12 06:36*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*67-127*	*2E04022*	*EPA 8260B*	*05/05/12 06:36*	*JKG*	

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Description: 9209-MW33
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C203991-14
Sampled: 04/25/12 09:50
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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	04/27/12 15:27	KER	

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Description: 9209-MW33 | **Lab Sample ID:** C203991-14 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 09:50 | **Work Order:** C203991

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	04/30/12 13:49	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 12:28	JDH	
Barium [7440-39-3] ^	**112**		ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 12:28	JDH	
Beryllium [7440-41-7] ^	**0.208**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 12:28	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 12:28	JDH	
Chromium [7440-47-3] ^	**44.4**		ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 12:28	JDH	
Cobalt [7440-48-4] ^	**15.1**		ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 12:28	JDH	
Copper [7440-50-8] ^	**37.0**		ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 12:28	JDH	
Lead [7439-92-1] ^	**6.44**	J	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:28	JDH	
Nickel [7440-02-0] ^	**20.2**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 12:28	JDH	
Selenium [7782-49-2] ^	**0.917**	J	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 13:49	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:28	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 13:49	VLO	
Vanadium [7440-62-2] ^	**72.1**		ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 12:28	JDH	
Zinc [7440-66-6] ^	**102**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 12:28	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-MW35 | **Lab Sample ID:** C203991-15 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 09:40 | **Work Order:** C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 07:05	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 07:05	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 07:05	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 07:05	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 07:05	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 07:05	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 07:05	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 07:05	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 07:05	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 07:05	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 07:05	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 07:05	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 07:05	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 07:05	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 07:05	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 07:05	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 07:05	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 07:05	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 07:05	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 07:05	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 07:05	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 07:05	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 07:05	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 07:05	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 07:05	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 07:05	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 07:05	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 07:05	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 07:05	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 07:05	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 07:05	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 07:05	JKG	

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Description: 9209-MW35 | **Lab Sample ID:** C203991-15 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 09:40 | **Work Order:** C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 07:05	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 07:05	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 07:05	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 07:05	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 07:05	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 07:05	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 07:05	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 07:05	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 07:05	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 07:05	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 07:05	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*2E04022*	*EPA 8260B*	*05/05/12 07:05*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*95 %*	*68-117*	*2E04022*	*EPA 8260B*	*05/05/12 07:05*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*67-127*	*2E04022*	*EPA 8260B*	*05/05/12 07:05*	*JKG*	

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Description:	9209-MW35	**Lab Sample ID:**	C203991-15	**Received:**	04/25/12 13:10
Matrix:	Ground Water	**Sampled:**	04/25/12 09:40	**Work Order:**	C203991
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	04/27/12 15:30	KER	

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Description: 9209-MW35 | **Lab Sample ID:** C203991-15 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 09:40 | **Work Order:** C203991

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	04/30/12 13:53	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 12:30	JDH	
Barium [7440-39-3] ^	**51.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 12:30	JDH	
Beryllium [7440-41-7] ^	**0.616**	J	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 12:30	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 12:30	JDH	
Chromium [7440-47-3] ^	**3.96**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 12:30	JDH	
Cobalt [7440-48-4] ^	**2.36**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 12:30	JDH	
Copper [7440-50-8] ^	**5.67**	J	ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 12:30	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:30	JDH	
Nickel [7440-02-0] ^	**3.10**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 12:30	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 13:53	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:30	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 13:53	VLO	
Vanadium [7440-62-2] ^	**11.3**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 12:30	JDH	
Zinc [7440-66-6] ^	**17.8**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 12:30	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:** C203991-16 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 07:45 | **Work Order:** C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 07:35	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 07:35	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
1,1-Dichloroethane [75-34-3] ^	**5.5**		ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 07:35	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 07:35	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 07:35	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 07:35	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 07:35	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 07:35	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 07:35	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 07:35	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 07:35	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 07:35	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 07:35	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 07:35	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 07:35	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 07:35	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 07:35	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 07:35	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 07:35	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 07:35	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 07:35	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 07:35	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 07:35	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 07:35	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 07:35	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 07:35	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**3.3**	J	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 07:35	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 07:35	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 07:35	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 07:35	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 07:35	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 07:35	JKG	

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Description: 9209-MW36 | **Lab Sample ID:** C203991-16 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 07:45 | **Work Order:** C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 07:35	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 07:35	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 07:35	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 07:35	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 07:35	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 07:35	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 07:35	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 07:35	JKG	
Trichloroethene [79-01-6] ^	**0.74**	J	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 07:35	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 07:35	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 07:35	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*103 %*	*51-122*	*2E04022*	*EPA 8260B*	*05/05/12 07:35*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*2E04022*	*EPA 8260B*	*05/05/12 07:35*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*67-127*	*2E04022*	*EPA 8260B*	*05/05/12 07:35*	*JKG*	

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Description:	9209-MW36	**Lab Sample ID:**	C203991-16	**Received:**	04/25/12 13:10
Matrix:	Ground Water	**Sampled:**	04/25/12 07:45	**Work Order:**	C203991
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	04/27/12 15:32	KER	

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Description: 9209-MW36 | **Lab Sample ID:** C203991-16 | **Received:** 04/25/12 13:10

Matrix: Ground Water | **Sampled:** 04/25/12 07:45 | **Work Order:** C203991

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	04/30/12 13:56	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	04/27/12 12:32	JDH	
Barium [7440-39-3] ^	**64.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	04/27/12 12:32	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	04/27/12 12:32	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	04/27/12 12:32	JDH	
Chromium [7440-47-3] ^	**7.90**	J	ug/L	1	1.00	10.0	10	EPA 6010C	04/27/12 12:32	JDH	
Cobalt [7440-48-4] ^	**2.61**	J	ug/L	1	1.10	10.0	10	EPA 6010C	04/27/12 12:32	JDH	
Copper [7440-50-8] ^	**9.44**	J	ug/L	1	1.60	10.0	10	EPA 6010C	04/27/12 12:32	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:32	JDH	
Nickel [7440-02-0] ^	**4.33**	J	ug/L	1	1.80	10.0	50	EPA 6010C	04/27/12 12:32	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 13:56	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	04/27/12 12:32	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 13:56	VLO	
Vanadium [7440-62-2] ^	**12.5**	J	ug/L	1	1.40	10.0	25	EPA 6010C	04/27/12 12:32	JDH	
Zinc [7440-66-6] ^	**12.1**		ug/L	1	3.80	10.0	10	EPA 6010C	04/27/12 12:32	JDH	

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

Lab Sample ID: C203991-16
Sampled: 04/25/12 07:45
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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] ^	**5200**		ug/L	1	2000	2000	NE	SM 5210B	04/26/12 16:45	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**29000**		ug/L	1	10000	10000	NE	SM 5220D	05/01/12 14:45	JOC	
Chloride [16887-00-6] ^	**5900**		ug/L	1	430	5000	NE	EPA 300.0	05/01/12 22:36	CCB	
Nitrate as N [14797-55-8] ^	**500**	J	ug/L	1	25	100	10000	EPA 353.2	04/29/12 18:23	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	**510**		ug/L	1	25	100	NE	EPA 353.2	04/29/12 17:27	CCB	
Nitrite as N [14797-65-0] ^	**8.6**	JB	ug/L	1	3.0	100	1000	EPA 353.2	04/25/12 17:19	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**3900**	J	ug/L	1	40	5000	250000	EPA 300.0	05/01/12 22:36	CCB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	04/30/12 15:27	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**60000**		ug/L	1	12000	15000	NE	EPA 310.2	04/30/12 08:38	CCB	

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

Lab Sample ID: C203991-16
Sampled: 04/25/12 07:45
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	46	U	ug/L	1	46	50		SM18 3500-Fe D	05/07/12 08:18	RMM	Q

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

Lab Sample ID: C203991-16
Sampled: 04/25/12 07:45
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**336000**	D	ug/L	10	2700	25000	NE	RSK-175	04/27/12 16:43	GMB	
Ethane [74-84-0]	0.200	U	ug/L	1	0.200	2.00	NE	RSK-175	04/27/12 12:46	GMB	
Ethene [74-85-1]	0.540	U	ug/L	1	0.540	3.00	NE	RSK-175	04/27/12 12:46	GMB	
Methane [74-82-8]	**186**	D	ug/L	10	4.30	10.0	NE	RSK-175	04/27/12 16:43	GMB	

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

Lab Sample ID: C203991-16
Sampled: 04/25/12 07:45
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

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]	40	U	ug/L	1	40	70	NE	VGC-13	05/07/12 23:41	JWJ	
Butyric Acid [107-92-6]	24	U	ug/L	1	24	70	NE	VGC-13	05/07/12 23:41	JWJ	
Hexanoic Acid [142-62-1]	87	U	ug/L	1	87	100		VGC-13	05/07/12 23:41	JWJ	
iso-Hexanoic Acid [646-07-1]	89	U	ug/L	1	89	100		VGC-13	05/07/12 23:41	JWJ	
iso-Pentanoic Acid [503-74-2]	62	U	ug/L	1	62	70		VGC-13	05/07/12 23:41	JWJ	QV-01
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	**73**	J	ug/L	1	62	140	NE	VGC-13	05/07/12 23:41	JWJ	
Pentanoic Acid [109-52-4]	48	U	ug/L	1	48	70		VGC-13	05/07/12 23:41	JWJ	
Propionic Acid [79-09-4]	57	U	ug/L	1	57	70	NE	VGC-13	05/07/12 23:41	JWJ	
Pyruvic Acid [127-17-3]	61	U	ug/L	1	61	70	NE	VGC-13	05/07/12 23:41	JWJ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*21000*	*1*	*20000*	*105 %*	*80-124*	*2E07022*	*VGC-13*	*05/07/12 23:41*	*JWJ*	

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

Lab Sample ID: C203991-16
Sampled: 04/25/12 07:45
Sampled By: Aaron Weispfenning

Received: 04/25/12 13:10
Work Order: C203991

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165]	**1100**		ug/L	1	280	1000	NE	SM18 5310B	04/30/12 17:38	JSW	

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: C203991-17
Sampled: 04/25/12 09:30
Sampled By: ENCO

Received: 04/25/12 13:10
Work Order: C203991

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 08:04	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 08:04	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 08:04	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 08:04	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 08:04	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 08:04	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 08:04	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 08:04	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 08:04	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 08:04	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 08:04	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 08:04	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 08:04	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 08:04	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 08:04	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 08:04	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 08:04	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 08:04	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 08:04	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 08:04	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 08:04	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 08:04	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 08:04	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 08:04	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 08:04	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 08:04	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 08:04	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 08:04	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 08:04	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 08:04	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 08:04	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 08:04	JKG	

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

Lab Sample ID: C203991-17
Sampled: 04/25/12 09:30
Sampled By: ENCO

Received: 04/25/12 13:10
Work Order: C203991

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 08:04	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 08:04	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 08:04	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 08:04	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 08:04	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 08:04	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 08:04	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 08:04	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 08:04	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 08:04	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 08:04	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*105 %*	*51-122*	*2E04022*	*EPA 8260B*	*05/05/12 08:04*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*68-117*	*2E04022*	*EPA 8260B*	*05/05/12 08:04*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*67-127*	*2E04022*	*EPA 8260B*	*05/05/12 08:04*	*JKG*	

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Description: 9209-MW6d | **Lab Sample ID:** C204846-01 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 10:00 | **Work Order:** C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/08/12 19:55	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/08/12 19:55	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
1,1-Dichloroethane [75-34-3] ^	**2.3**	J	ug/L	1	0.13	1.0	5	EPA 8260B	05/08/12 19:55	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 19:55	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 19:55	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 19:55	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/08/12 19:55	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/08/12 19:55	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 19:55	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/08/12 19:55	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/08/12 19:55	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/08/12 19:55	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 19:55	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/08/12 19:55	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/08/12 19:55	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/08/12 19:55	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/08/12 19:55	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/08/12 19:55	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/08/12 19:55	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/08/12 19:55	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 19:55	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/08/12 19:55	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 19:55	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/08/12 19:55	JKG	
Chloroform [67-66-3] ^	**0.61**	J	ug/L	1	0.18	1.0	5	EPA 8260B	05/08/12 19:55	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/08/12 19:55	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 19:55	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 19:55	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/08/12 19:55	JKG	
Dichlorodifluoromethane [75-71-8] ^	**0.53**	J	ug/L	1	0.20	1.0	5	EPA 8260B	05/08/12 19:55	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/08/12 19:55	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/08/12 19:55	JKG	

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

Lab Sample ID: C204846-01
Sampled: 04/26/12 10:00
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/08/12 19:55	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/08/12 19:55	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/08/12 19:55	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/08/12 19:55	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 19:55	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/08/12 19:55	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
Tetrachloroethene [127-18-4] ^	**0.40**	J	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 19:55	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/08/12 19:55	JKG	
Trichloroethene [79-01-6] ^	**0.42**	J	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/08/12 19:55	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/08/12 19:55	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/08/12 19:55	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*2E08033*	*EPA 8260B*	*05/08/12 19:55*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*2E08033*	*EPA 8260B*	*05/08/12 19:55*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*67-127*	*2E08033*	*EPA 8260B*	*05/08/12 19:55*	*JKG*	

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Description:	9209-MW6d	**Lab Sample ID:**	C204846-01	**Received:**	04/26/12 13:20
Matrix:	Ground Water	**Sampled:**	04/26/12 10:00	**Work Order:**	C204846
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	05/01/12 15:14	KER	

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

Lab Sample ID: C204846-01
Sampled: 04/26/12 10:00
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	**1.59**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 11:02	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 12:30	JDH	
Barium [7440-39-3] ^	**72.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 12:30	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 12:30	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 12:30	JDH	
Chromium [7440-47-3] ^	**5.68**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 12:30	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 12:30	JDH	
Copper [7440-50-8] ^	**7.24**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 12:30	JDH	J
Lead [7439-92-1] ^	**2.37**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:30	JDH	
Nickel [7440-02-0] ^	**2.61**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 12:30	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:02	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:30	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:02	VLO	
Vanadium [7440-62-2] ^	**4.00**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 12:30	JDH	
Zinc [7440-66-6] ^	**6.97**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 12:30	JDH	

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Description: 9209-MW7 | **Lab Sample ID:** C204846-02 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 07:55 | **Work Order:** C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/08/12 20:24	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/08/12 20:24	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/08/12 20:24	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 20:24	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 20:24	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 20:24	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/08/12 20:24	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/08/12 20:24	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 20:24	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**0.79**	J	ug/L	1	0.19	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/08/12 20:24	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/08/12 20:24	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/08/12 20:24	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 20:24	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/08/12 20:24	JKG	
Acetone [67-64-1] ^	**120**		ug/L	1	1.2	5.0	100	EPA 8260B	05/08/12 20:24	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/08/12 20:24	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/08/12 20:24	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/08/12 20:24	JKG	
Benzene [71-43-2] ^	**0.66**	J	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/08/12 20:24	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/08/12 20:24	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 20:24	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/08/12 20:24	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 20:24	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/08/12 20:24	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/08/12 20:24	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/08/12 20:24	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 20:24	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 20:24	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/08/12 20:24	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/08/12 20:24	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/08/12 20:24	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/08/12 20:24	JKG	

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Description: 9209-MW7 | **Lab Sample ID:** C204846-02 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 07:55 | **Work Order:** C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/08/12 20:24	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/08/12 20:24	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/08/12 20:24	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/08/12 20:24	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 20:24	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/08/12 20:24	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 20:24	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/08/12 20:24	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/08/12 20:24	JKG	
Vinyl chloride [75-01-4] ^	**0.49**	J	ug/L	1	0.32	1.0	1	EPA 8260B	05/08/12 20:24	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/08/12 20:24	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*2E08033*	*EPA 8260B*	*05/08/12 20:24*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*2E08033*	*EPA 8260B*	*05/08/12 20:24*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*67-127*	*2E08033*	*EPA 8260B*	*05/08/12 20:24*	*JKG*	

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

Lab Sample ID: C204846-02
Sampled: 04/26/12 07:55
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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	05/01/12 15:16	KER	

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Description: 9209-MW7 | **Lab Sample ID:** C204846-02 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 07:55 | **Work Order:** C204846

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	04/30/12 11:05	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 12:48	JDH	
Barium [7440-39-3] ^	**50.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 12:48	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 12:48	JDH	
Cadmium [7440-43-9] ^	**0.805**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 12:48	JDH	
Chromium [7440-47-3] ^	**13.3**		ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 12:48	JDH	
Cobalt [7440-48-4] ^	**27.1**		ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 12:48	JDH	
Copper [7440-50-8] ^	**10.7**	B	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 12:48	JDH	J-01
Lead [7439-92-1] ^	**4.04**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:48	JDH	
Nickel [7440-02-0] ^	**10.9**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 12:48	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:05	VLO	
Silver [7440-22-4] ^	**3.63**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:48	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:05	VLO	
Vanadium [7440-62-2] ^	**7.24**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 12:48	JDH	
Zinc [7440-66-6] ^	**13.9**		ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 12:48	JDH	

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

Lab Sample ID: C204846-03
Sampled: 04/26/12 10:40
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/08/12 20:53	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/08/12 20:53	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/08/12 20:53	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 20:53	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 20:53	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 20:53	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/08/12 20:53	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/08/12 20:53	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 20:53	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/08/12 20:53	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/08/12 20:53	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/08/12 20:53	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 20:53	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/08/12 20:53	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/08/12 20:53	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/08/12 20:53	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/08/12 20:53	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/08/12 20:53	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/08/12 20:53	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/08/12 20:53	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 20:53	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/08/12 20:53	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 20:53	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/08/12 20:53	JKG	
Chloroform [67-66-3] ^	**0.42**	J	ug/L	1	0.18	1.0	5	EPA 8260B	05/08/12 20:53	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/08/12 20:53	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 20:53	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 20:53	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/08/12 20:53	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/08/12 20:53	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/08/12 20:53	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/08/12 20:53	JKG	

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

Lab Sample ID: C204846-03
Sampled: 04/26/12 10:40
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/08/12 20:53	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/08/12 20:53	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/08/12 20:53	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/08/12 20:53	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 20:53	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/08/12 20:53	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 20:53	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/08/12 20:53	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/08/12 20:53	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/08/12 20:53	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/08/12 20:53	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*2E08033*	*EPA 8260B*	*05/08/12 20:53*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*68-117*	*2E08033*	*EPA 8260B*	*05/08/12 20:53*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*67-127*	*2E08033*	*EPA 8260B*	*05/08/12 20:53*	*JKG*	

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Description:	9209-MW8d	**Lab Sample ID:**	C204846-03	**Received:**	04/26/12 13:20
Matrix:	Ground Water	**Sampled:**	04/26/12 10:40	**Work Order:**	C204846
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	05/01/12 15:18	KER	

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

Lab Sample ID: C204846-03
Sampled: 04/26/12 10:40
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	**1.63**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 10:24	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 12:50	JDH	
Barium [7440-39-3] ^	**34.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 12:50	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 12:50	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 12:50	JDH	
Chromium [7440-47-3] ^	**5.24**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 12:50	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 12:50	JDH	
Copper [7440-50-8] ^	**11.0**	B	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 12:50	JDH	J-01
Lead [7439-92-1] ^	**2.82**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:50	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 12:50	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 10:24	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:50	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 10:24	VLO	
Vanadium [7440-62-2] ^	**4.15**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 12:50	JDH	
Zinc [7440-66-6] ^	**7.52**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 12:50	JDH	

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

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

Lab Sample ID: C204846-04
Sampled: 04/26/12 08:20
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/08/12 21:23	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/08/12 21:23	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
1,1-Dichloroethane [75-34-3] ^	**2.2**	J	ug/L	1	0.13	1.0	5	EPA 8260B	05/08/12 21:23	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 21:23	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 21:23	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 21:23	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/08/12 21:23	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/08/12 21:23	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 21:23	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/08/12 21:23	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/08/12 21:23	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/08/12 21:23	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 21:23	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/08/12 21:23	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/08/12 21:23	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/08/12 21:23	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/08/12 21:23	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/08/12 21:23	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/08/12 21:23	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/08/12 21:23	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 21:23	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/08/12 21:23	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 21:23	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/08/12 21:23	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/08/12 21:23	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/08/12 21:23	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.60**	J	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 21:23	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 21:23	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/08/12 21:23	JKG	
Dichlorodifluoromethane [75-71-8] ^	**0.70**	J	ug/L	1	0.20	1.0	5	EPA 8260B	05/08/12 21:23	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/08/12 21:23	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/08/12 21:23	JKG	

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

Lab Sample ID: C204846-04
Sampled: 04/26/12 08:20
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/08/12 21:23	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/08/12 21:23	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/08/12 21:23	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/08/12 21:23	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 21:23	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/08/12 21:23	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
Tetrachloroethene [127-18-4] ^	**0.52**	J	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 21:23	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/08/12 21:23	JKG	
Trichloroethene [79-01-6] ^	**0.50**	J	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/08/12 21:23	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/08/12 21:23	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/08/12 21:23	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*2E08033*	*EPA 8260B*	*05/08/12 21:23*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*2E08033*	*EPA 8260B*	*05/08/12 21:23*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*67-127*	*2E08033*	*EPA 8260B*	*05/08/12 21:23*	*JKG*	

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Description:	9209-MW10d	**Lab Sample ID:**	C204846-04	**Received:**	04/26/12 13:20
Matrix:	Ground Water	**Sampled:**	04/26/12 08:20	**Work Order:**	C204846
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	05/01/12 15:20	KER	

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

Lab Sample ID: C204846-04
Sampled: 04/26/12 08:20
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	**0.232**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 11:09	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 12:52	JDH	
Barium [7440-39-3] ^	**4.36**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 12:52	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 12:52	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 12:52	JDH	
Chromium [7440-47-3] ^	**3.50**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 12:52	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 12:52	JDH	
Copper [7440-50-8] ^	**3.47**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 12:52	JDH	J
Lead [7439-92-1] ^	**4.57**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:52	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 12:52	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:09	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:52	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:09	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 12:52	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 12:52	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-MW11d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-05
Sampled: 04/26/12 07:40
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/08/12 21:52	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/08/12 21:52	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/08/12 21:52	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 21:52	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 21:52	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 21:52	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/08/12 21:52	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/08/12 21:52	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 21:52	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/08/12 21:52	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/08/12 21:52	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/08/12 21:52	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 21:52	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/08/12 21:52	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/08/12 21:52	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/08/12 21:52	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/08/12 21:52	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/08/12 21:52	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/08/12 21:52	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/08/12 21:52	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 21:52	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/08/12 21:52	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 21:52	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/08/12 21:52	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/08/12 21:52	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/08/12 21:52	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 21:52	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 21:52	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/08/12 21:52	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/08/12 21:52	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/08/12 21:52	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/08/12 21:52	JKG	

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

Lab Sample ID: C204846-05
Sampled: 04/26/12 07:40
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/08/12 21:52	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/08/12 21:52	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/08/12 21:52	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/08/12 21:52	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 21:52	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/08/12 21:52	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 21:52	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/08/12 21:52	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/08/12 21:52	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/08/12 21:52	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/08/12 21:52	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*51-122*	*2E08033*	*EPA 8260B*	*05/08/12 21:52*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*2E08033*	*EPA 8260B*	*05/08/12 21:52*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*67-127*	*2E08033*	*EPA 8260B*	*05/08/12 21:52*	*JKG*	

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Description:	9209-MW11d	**Lab Sample ID:**	C204846-05	**Received:**	04/26/12 13:20
Matrix:	Ground Water	**Sampled:**	04/26/12 07:40	**Work Order:**	C204846
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	05/01/12 15:22	KER	

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

Lab Sample ID: C204846-05
Sampled: 04/26/12 07:40
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	**0.247**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 11:13	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 12:54	JDH	
Barium [7440-39-3] ^	**44.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 12:54	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 12:54	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 12:54	JDH	
Chromium [7440-47-3] ^	**3.04**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 12:54	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 12:54	JDH	
Copper [7440-50-8] ^	**9.68**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 12:54	JDH	J
Lead [7439-92-1] ^	**3.31**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:54	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 12:54	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:13	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:54	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:13	VLO	
Vanadium [7440-62-2] ^	**2.05**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 12:54	JDH	
Zinc [7440-66-6] ^	**4.62**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 12:54	JDH	

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

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Description: 9209-MW23 | **Lab Sample ID:** C204846-06 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 08:10 | **Work Order:** C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/08/12 22:21	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/08/12 22:21	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/08/12 22:21	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 22:21	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 22:21	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 22:21	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/08/12 22:21	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/08/12 22:21	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 22:21	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/08/12 22:21	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/08/12 22:21	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/08/12 22:21	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 22:21	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/08/12 22:21	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/08/12 22:21	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/08/12 22:21	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/08/12 22:21	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/08/12 22:21	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/08/12 22:21	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/08/12 22:21	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 22:21	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/08/12 22:21	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 22:21	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/08/12 22:21	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/08/12 22:21	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/08/12 22:21	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 22:21	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 22:21	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/08/12 22:21	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/08/12 22:21	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/08/12 22:21	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/08/12 22:21	JKG	

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Description: 9209-MW23 | **Lab Sample ID:** C204846-06 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 08:10 | **Work Order:** C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/08/12 22:21	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/08/12 22:21	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/08/12 22:21	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/08/12 22:21	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 22:21	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/08/12 22:21	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 22:21	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/08/12 22:21	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/08/12 22:21	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/08/12 22:21	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/08/12 22:21	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*51-122*	*2E08033*	*EPA 8260B*	*05/08/12 22:21*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*2E08033*	*EPA 8260B*	*05/08/12 22:21*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*93 %*	*67-127*	*2E08033*	*EPA 8260B*	*05/08/12 22:21*	*JKG*	

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Description: 9209-MW23
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-06
Sampled: 04/26/12 08:10
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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	05/01/12 15:24	KER	

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Description: 9209-MW23 | **Lab Sample ID:** C204846-06 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 08:10 | **Work Order:** C204846

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	04/30/12 11:17	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 12:56	JDH	
Barium [7440-39-3] ^	**42.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 12:56	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 12:56	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 12:56	JDH	
Chromium [7440-47-3] ^	**6.68**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 12:56	JDH	
Cobalt [7440-48-4] ^	**1.63**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 12:56	JDH	
Copper [7440-50-8] ^	**10.4**	B	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 12:56	JDH	J-01
Lead [7439-92-1] ^	**7.07**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:56	JDH	
Nickel [7440-02-0] ^	**4.20**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 12:56	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:17	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:56	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:17	VLO	
Vanadium [7440-62-2] ^	**12.5**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 12:56	JDH	
Zinc [7440-66-6] ^	**17.5**		ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 12:56	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-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-07
Sampled: 04/25/12 14:25
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/07/12 18:26	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/07/12 18:26	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/07/12 18:26	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/07/12 18:26	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/07/12 18:26	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/07/12 18:26	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/07/12 18:26	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/07/12 18:26	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/07/12 18:26	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/07/12 18:26	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/07/12 18:26	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/07/12 18:26	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/07/12 18:26	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/07/12 18:26	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/07/12 18:26	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/07/12 18:26	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/07/12 18:26	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/07/12 18:26	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/07/12 18:26	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/07/12 18:26	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/07/12 18:26	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/07/12 18:26	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/07/12 18:26	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/07/12 18:26	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/07/12 18:26	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/07/12 18:26	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/07/12 18:26	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/07/12 18:26	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/07/12 18:26	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/07/12 18:26	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/07/12 18:26	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/07/12 18:26	JKG	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-07
Sampled: 04/25/12 14:25
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/07/12 18:26	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/07/12 18:26	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/07/12 18:26	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/07/12 18:26	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/07/12 18:26	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/07/12 18:26	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/07/12 18:26	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/07/12 18:26	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/07/12 18:26	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/07/12 18:26	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/07/12 18:26	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*103 %*	*51-122*	*2E07018*	*EPA 8260B*	*05/07/12 18:26*	*JKG*	
Dibromofluoromethane	*41*	*1*	*50.0*	*82 %*	*68-117*	*2E07018*	*EPA 8260B*	*05/07/12 18:26*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*85 %*	*67-127*	*2E07018*	*EPA 8260B*	*05/07/12 18:26*	*JKG*	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-07
Sampled: 04/25/12 14:25
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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	05/01/12 15:26	KER	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-07
Sampled: 04/25/12 14:25
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	**0.754**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 11:20	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 12:58	JDH	
Barium [7440-39-3] ^	**35.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 12:58	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 12:58	JDH	
Cadmium [7440-43-9] ^	**0.746**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 12:58	JDH	
Chromium [7440-47-3] ^	**4.03**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 12:58	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 12:58	JDH	
Copper [7440-50-8] ^	**16.8**	B	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 12:58	JDH	J-01
Lead [7439-92-1] ^	**3.32**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:58	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 12:58	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:20	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 12:58	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:20	VLO	
Vanadium [7440-62-2] ^	**4.05**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 12:58	JDH	
Zinc [7440-66-6] ^	**6.65**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 12:58	JDH	

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Description: 9209-MW24 | **Lab Sample ID:** C204846-08 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 08:05 | **Work Order:** C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/08/12 22:51	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/08/12 22:51	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/08/12 22:51	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 22:51	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 22:51	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 22:51	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/08/12 22:51	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/08/12 22:51	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 22:51	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/08/12 22:51	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/08/12 22:51	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/08/12 22:51	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 22:51	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/08/12 22:51	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/08/12 22:51	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/08/12 22:51	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/08/12 22:51	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/08/12 22:51	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/08/12 22:51	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/08/12 22:51	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 22:51	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/08/12 22:51	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 22:51	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/08/12 22:51	JKG	
Chloroform [67-66-3] ^	**7.3**		ug/L	1	0.18	1.0	5	EPA 8260B	05/08/12 22:51	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/08/12 22:51	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 22:51	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 22:51	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/08/12 22:51	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/08/12 22:51	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/08/12 22:51	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/08/12 22:51	JKG	

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Description: 9209-MW24 | **Lab Sample ID:** C204846-08 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 08:05 | **Work Order:** C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/08/12 22:51	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/08/12 22:51	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/08/12 22:51	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/08/12 22:51	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 22:51	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/08/12 22:51	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 22:51	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/08/12 22:51	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/08/12 22:51	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/08/12 22:51	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/08/12 22:51	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*2E08033*	*EPA 8260B*	*05/08/12 22:51*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*2E08033*	*EPA 8260B*	*05/08/12 22:51*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*67-127*	*2E08033*	*EPA 8260B*	*05/08/12 22:51*	*JKG*	

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Description:	9209-MW24	**Lab Sample ID:**	C204846-08	**Received:**	04/26/12 13:20
Matrix:	Ground Water	**Sampled:**	04/26/12 08:05	**Work Order:**	C204846
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	05/01/12 15:28	KER	

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Description: 9209-MW24 | **Lab Sample ID:** C204846-08 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 08:05 | **Work Order:** C204846

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	04/30/12 11:24	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 13:00	JDH	
Barium [7440-39-3] ^	**57.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 13:00	JDH	
Beryllium [7440-41-7] ^	**0.281**	J	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 13:00	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 13:00	JDH	
Chromium [7440-47-3] ^	**7.54**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 13:00	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 13:00	JDH	
Copper [7440-50-8] ^	**7.09**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 13:00	JDH	J
Lead [7439-92-1] ^	**9.80**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:00	JDH	
Nickel [7440-02-0] ^	**3.35**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 13:00	JDH	
Selenium [7782-49-2] ^	**1.82**	J	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:24	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:00	JDH	
Thallium [7440-28-0] ^	**0.190**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:24	VLO	
Vanadium [7440-62-2] ^	**8.38**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 13:00	JDH	
Zinc [7440-66-6] ^	**58.7**		ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 13:00	JDH	

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Description: 9209-MW28 | **Lab Sample ID:** C204846-09 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 12:05 | **Work Order:** C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/08/12 23:20	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/08/12 23:20	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/08/12 23:20	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 23:20	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 23:20	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 23:20	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/08/12 23:20	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/08/12 23:20	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 23:20	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/08/12 23:20	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/08/12 23:20	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/08/12 23:20	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 23:20	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/08/12 23:20	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/08/12 23:20	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/08/12 23:20	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/08/12 23:20	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/08/12 23:20	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/08/12 23:20	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/08/12 23:20	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 23:20	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/08/12 23:20	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 23:20	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/08/12 23:20	JKG	
Chloroform [67-66-3] ^	**0.53**	J	ug/L	1	0.18	1.0	5	EPA 8260B	05/08/12 23:20	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/08/12 23:20	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 23:20	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 23:20	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/08/12 23:20	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/08/12 23:20	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/08/12 23:20	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/08/12 23:20	JKG	

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Description: 9209-MW28 | **Lab Sample ID:** C204846-09 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 12:05 | **Work Order:** C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/08/12 23:20	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/08/12 23:20	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/08/12 23:20	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/08/12 23:20	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 23:20	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/08/12 23:20	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 23:20	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/08/12 23:20	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/08/12 23:20	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/08/12 23:20	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/08/12 23:20	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*51-122*	*2E08033*	*EPA 8260B*	*05/08/12 23:20*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*68-117*	*2E08033*	*EPA 8260B*	*05/08/12 23:20*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*67-127*	*2E08033*	*EPA 8260B*	*05/08/12 23:20*	*JKG*	

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Description:	9209-MW28	**Lab Sample ID:**	C204846-09	**Received:**	04/26/12 13:20
Matrix:	Ground Water	**Sampled:**	04/26/12 12:05	**Work Order:**	C204846
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	05/01/12 15:31	KER	

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Description: 9209-MW28 | **Lab Sample ID:** C204846-09 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 12:05 | **Work Order:** C204846

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	04/30/12 11:28	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 13:02	JDH	
Barium [7440-39-3] ^	**67.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 13:02	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 13:02	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 13:02	JDH	
Chromium [7440-47-3] ^	**14.2**		ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 13:02	JDH	
Cobalt [7440-48-4] ^	**3.90**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 13:02	JDH	
Copper [7440-50-8] ^	**2.81**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 13:02	JDH	J
Lead [7439-92-1] ^	**5.18**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:02	JDH	
Nickel [7440-02-0] ^	**5.84**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 13:02	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:28	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:02	JDH	
Thallium [7440-28-0] ^	**0.229**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:28	VLO	
Vanadium [7440-62-2] ^	**20.7**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 13:02	JDH	
Zinc [7440-66-6] ^	**69.8**		ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 13:02	JDH	

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Description: 9209-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-10
Sampled: 04/26/12 12:10
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/08/12 23:49	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/08/12 23:49	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/08/12 23:49	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 23:49	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 23:49	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 23:49	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/08/12 23:49	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/08/12 23:49	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 23:49	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/08/12 23:49	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/08/12 23:49	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/08/12 23:49	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 23:49	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/08/12 23:49	JKG	
Acetone [67-64-1] ^	**19**	J	ug/L	1	1.2	5.0	100	EPA 8260B	05/08/12 23:49	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/08/12 23:49	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/08/12 23:49	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/08/12 23:49	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/08/12 23:49	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/08/12 23:49	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/08/12 23:49	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/08/12 23:49	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 23:49	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/08/12 23:49	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/08/12 23:49	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/08/12 23:49	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/08/12 23:49	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/08/12 23:49	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/08/12 23:49	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/08/12 23:49	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/08/12 23:49	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/08/12 23:49	JKG	

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Description: 9209-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-10
Sampled: 04/26/12 12:10
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/08/12 23:49	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/08/12 23:49	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/08/12 23:49	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/08/12 23:49	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/08/12 23:49	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/08/12 23:49	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/08/12 23:49	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/08/12 23:49	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/08/12 23:49	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/08/12 23:49	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/08/12 23:49	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*2E08033*	*EPA 8260B*	*05/08/12 23:49*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*2E08033*	*EPA 8260B*	*05/08/12 23:49*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*67-127*	*2E08033*	*EPA 8260B*	*05/08/12 23:49*	*JKG*	

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Description: 9209-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-10
Sampled: 04/26/12 12:10
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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	05/01/12 15:33	KER	

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Description: 9209-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-10
Sampled: 04/26/12 12:10
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	**1.46**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 11:31	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 13:10	JDH	
Barium [7440-39-3] ^	**28.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 13:10	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 13:10	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 13:10	JDH	
Chromium [7440-47-3] ^	**10.1**		ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 13:10	JDH	
Cobalt [7440-48-4] ^	**1.34**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 13:10	JDH	
Copper [7440-50-8] ^	**13.3**	B	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 13:10	JDH	J-01
Lead [7439-92-1] ^	**4.99**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:10	JDH	
Nickel [7440-02-0] ^	**9.42**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 13:10	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:31	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:10	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:31	VLO	
Vanadium [7440-62-2] ^	**4.73**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 13:10	JDH	
Zinc [7440-66-6] ^	**106**		ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 13:10	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-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-11
Sampled: 04/26/12 11:55
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/09/12 00:18	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/09/12 00:18	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/09/12 00:18	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/09/12 00:18	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/09/12 00:18	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/09/12 00:18	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/09/12 00:18	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/09/12 00:18	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/09/12 00:18	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/09/12 00:18	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/09/12 00:18	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/09/12 00:18	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/09/12 00:18	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/09/12 00:18	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/09/12 00:18	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/09/12 00:18	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/09/12 00:18	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/09/12 00:18	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/09/12 00:18	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/09/12 00:18	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/09/12 00:18	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/09/12 00:18	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/09/12 00:18	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/09/12 00:18	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/09/12 00:18	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/09/12 00:18	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/09/12 00:18	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/09/12 00:18	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/09/12 00:18	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/09/12 00:18	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/09/12 00:18	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/09/12 00:18	JKG	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-11
Sampled: 04/26/12 11:55
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/09/12 00:18	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/09/12 00:18	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/09/12 00:18	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/09/12 00:18	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/09/12 00:18	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/09/12 00:18	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/09/12 00:18	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/09/12 00:18	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/09/12 00:18	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/09/12 00:18	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/09/12 00:18	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*2E08033*	*EPA 8260B*	*05/09/12 00:18*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*68-117*	*2E08033*	*EPA 8260B*	*05/09/12 00:18*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*67-127*	*2E08033*	*EPA 8260B*	*05/09/12 00:18*	*JKG*	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-11
Sampled: 04/26/12 11:55
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

Semivolatile 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
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	05/09/12 01:26	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*55*	*1*	*100*	*55 %*	*10-179*	*2E03002*	*EPA 8270D*	*05/09/12 01:26*	*DFM*	
2-Fluorobiphenyl	*36*	*1*	*50.0*	*72 %*	*10-149*	*2E03002*	*EPA 8270D*	*05/09/12 01:26*	*DFM*	
2-Fluorophenol	*55*	*1*	*100*	*55 %*	*10-110*	*2E03002*	*EPA 8270D*	*05/09/12 01:26*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*73 %*	*10-149*	*2E03002*	*EPA 8270D*	*05/09/12 01:26*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*2E03002*	*EPA 8270D*	*05/09/12 01:26*	*DFM*	
Terphenyl-d14	*33*	*1*	*50.0*	*67 %*	*10-188*	*2E03002*	*EPA 8270D*	*05/09/12 01:26*	*DFM*	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-11
Sampled: 04/26/12 11:55
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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	05/01/12 15:40	KER	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-11
Sampled: 04/26/12 11:55
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	**0.317**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 11:35	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 13:12	JDH	
Barium [7440-39-3] ^	**41.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 13:12	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 13:12	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 13:12	JDH	
Chromium [7440-47-3] ^	**6.48**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 13:12	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 13:12	JDH	
Copper [7440-50-8] ^	**8.73**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 13:12	JDH	J
Lead [7439-92-1] ^	**3.94**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:12	JDH	
Nickel [7440-02-0] ^	**1.97**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 13:12	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:35	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:12	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:35	VLO	
Vanadium [7440-62-2] ^	**3.72**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 13:12	JDH	
Zinc [7440-66-6] ^	**23.2**		ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 13:12	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-MW34 | **Lab Sample ID:** C204846-12 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 10:15 | **Work Order:** C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/09/12 00:48	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/09/12 00:48	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
1,1-Dichloroethane [75-34-3] ^	**14**		ug/L	1	0.13	1.0	5	EPA 8260B	05/09/12 00:48	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/09/12 00:48	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/09/12 00:48	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/09/12 00:48	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/09/12 00:48	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/09/12 00:48	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/09/12 00:48	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**1.2**		ug/L	1	0.19	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/09/12 00:48	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/09/12 00:48	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/09/12 00:48	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/09/12 00:48	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/09/12 00:48	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/09/12 00:48	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/09/12 00:48	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/09/12 00:48	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/09/12 00:48	JKG	
Benzene [71-43-2] ^	**0.60**	J	ug/L	1	0.15	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/09/12 00:48	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/09/12 00:48	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/09/12 00:48	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/09/12 00:48	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/09/12 00:48	JKG	
Chloroethane [75-00-3] ^	**0.62**	J	ug/L	1	0.23	1.0	10	EPA 8260B	05/09/12 00:48	JKG	
Chloroform [67-66-3] ^	**0.60**	J	ug/L	1	0.18	1.0	5	EPA 8260B	05/09/12 00:48	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/09/12 00:48	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**9.0**		ug/L	1	0.15	1.0	5	EPA 8260B	05/09/12 00:48	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/09/12 00:48	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/09/12 00:48	JKG	
Dichlorodifluoromethane [75-71-8] ^	**1.8**	J	ug/L	1	0.20	1.0	5	EPA 8260B	05/09/12 00:48	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/09/12 00:48	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/09/12 00:48	JKG	

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Description: 9209-MW34 | **Lab Sample ID:** C204846-12 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 10:15 | **Work Order:** C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/09/12 00:48	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/09/12 00:48	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/09/12 00:48	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/09/12 00:48	JKG	
Methylene chloride [75-09-2] ^	**7.6**		ug/L	1	0.23	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/09/12 00:48	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/09/12 00:48	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
Tetrachloroethene [127-18-4] ^	**2.2**		ug/L	1	0.17	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/09/12 00:48	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/09/12 00:48	JKG	
Trichloroethene [79-01-6] ^	**3.3**		ug/L	1	0.15	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
Trichlorofluoromethane [75-69-4] ^	**0.92**	J	ug/L	1	0.24	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/09/12 00:48	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/09/12 00:48	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/09/12 00:48	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*2E08033*	*EPA 8260B*	*05/09/12 00:48*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*68-117*	*2E08033*	*EPA 8260B*	*05/09/12 00:48*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*67-127*	*2E08033*	*EPA 8260B*	*05/09/12 00:48*	*JKG*	

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Description:	9209-MW34	**Lab Sample ID:**	C204846-12	**Received:**	04/26/12 13:20
Matrix:	Ground Water	**Sampled:**	04/26/12 10:15	**Work Order:**	C204846
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] ^	**0.255**		ug/L	1	0.170	0.200	0.2	EPA 7470A	05/01/12 15:42	KER	

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Description: 9209-MW34 | **Lab Sample ID:** C204846-12 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 10:15 | **Work Order:** C204846

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] ^	**0.261**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 11:46	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 13:14	JDH	
Barium [7440-39-3] ^	**184**		ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 13:14	JDH	
Beryllium [7440-41-7] ^	**1.27**		ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 13:14	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 13:14	JDH	
Chromium [7440-47-3] ^	**25.4**		ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 13:14	JDH	
Cobalt [7440-48-4] ^	**4.77**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 13:14	JDH	
Copper [7440-50-8] ^	**23.8**	B	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 13:14	JDH	QB-01
Lead [7439-92-1] ^	**8.30**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:14	JDH	
Nickel [7440-02-0] ^	**13.2**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 13:14	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:46	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:14	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:46	VLO	
Vanadium [7440-62-2] ^	**37.4**		ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 13:14	JDH	
Zinc [7440-66-6] ^	**53.7**		ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 13:14	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-MW34d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-13
Sampled: 04/25/12 12:30
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 22:51	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 22:51	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.77**	J	ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 22:51	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 22:51	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 22:51	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 22:51	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 22:51	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 22:51	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 22:51	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 22:51	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 22:51	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 22:51	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 22:51	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 22:51	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 22:51	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 22:51	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 22:51	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 22:51	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 22:51	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 22:51	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 22:51	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 22:51	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 22:51	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 22:51	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 22:51	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 22:51	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.93**	J	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 22:51	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 22:51	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 22:51	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 22:51	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 22:51	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 22:51	JKG	

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Description: 9209-MW34d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-13
Sampled: 04/25/12 12:30
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 22:51	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 22:51	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 22:51	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 22:51	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 22:51	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 22:51	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 22:51	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 22:51	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 22:51	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 22:51	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 22:51	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*51-122*	*2E05002*	*EPA 8260B*	*05/05/12 22:51*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*68-117*	*2E05002*	*EPA 8260B*	*05/05/12 22:51*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*67-127*	*2E05002*	*EPA 8260B*	*05/05/12 22:51*	*JKG*	

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Description: 9209-MW34d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-13
Sampled: 04/25/12 12:30
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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	05/01/12 15:44	KER	

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Description: 9209-MW34d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-13
Sampled: 04/25/12 12:30
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	**0.575**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 11:50	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 13:16	JDH	
Barium [7440-39-3] ^	**32.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 13:16	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 13:16	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 13:16	JDH	
Chromium [7440-47-3] ^	**8.02**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 13:16	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 13:16	JDH	
Copper [7440-50-8] ^	**5.86**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 13:16	JDH	J
Lead [7439-92-1] ^	**2.66**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:16	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 13:16	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:50	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:16	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:50	VLO	
Vanadium [7440-62-2] ^	**1.57**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 13:16	JDH	
Zinc [7440-66-6] ^	**7.83**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 13:16	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 | **Lab Sample ID:** C204846-14 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 08:50 | **Work Order:** C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/09/12 01:17	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/09/12 01:17	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
1,1-Dichloroethane [75-34-3] ^	**8.0**		ug/L	1	0.13	1.0	5	EPA 8260B	05/09/12 01:17	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/09/12 01:17	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/09/12 01:17	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/09/12 01:17	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/09/12 01:17	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/09/12 01:17	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/09/12 01:17	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**0.53**	J	ug/L	1	0.19	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/09/12 01:17	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/09/12 01:17	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/09/12 01:17	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/09/12 01:17	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/09/12 01:17	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/09/12 01:17	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/09/12 01:17	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/09/12 01:17	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/09/12 01:17	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/09/12 01:17	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/09/12 01:17	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/09/12 01:17	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/09/12 01:17	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/09/12 01:17	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/09/12 01:17	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/09/12 01:17	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/09/12 01:17	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**4.0**	J	ug/L	1	0.15	1.0	5	EPA 8260B	05/09/12 01:17	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/09/12 01:17	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/09/12 01:17	JKG	
Dichlorodifluoromethane [75-71-8] ^	**1.4**	J	ug/L	1	0.20	1.0	5	EPA 8260B	05/09/12 01:17	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/09/12 01:17	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/09/12 01:17	JKG	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-14
Sampled: 04/26/12 08:50
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/09/12 01:17	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/09/12 01:17	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/09/12 01:17	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/09/12 01:17	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/09/12 01:17	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/09/12 01:17	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
Tetrachloroethene [127-18-4] ^	**0.86**	J	ug/L	1	0.17	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/09/12 01:17	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/09/12 01:17	JKG	
Trichloroethene [79-01-6] ^	**1.3**		ug/L	1	0.15	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/09/12 01:17	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/09/12 01:17	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/09/12 01:17	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*2E08033*	*EPA 8260B*	*05/09/12 01:17*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*2E08033*	*EPA 8260B*	*05/09/12 01:17*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*67-127*	*2E08033*	*EPA 8260B*	*05/09/12 01:17*	*JKG*	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-14
Sampled: 04/26/12 08:50
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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	05/01/12 15:46	KER	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C204846-14
Sampled: 04/26/12 08:50
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 11:54	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 13:18	JDH	
Barium [7440-39-3] ^	**53.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 13:18	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 13:18	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 13:18	JDH	
Chromium [7440-47-3] ^	**2.26**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 13:18	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 13:18	JDH	
Copper [7440-50-8] ^	**10.5**	B	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 13:18	JDH	J-01
Lead [7439-92-1] ^	**2.44**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:18	JDH	
Nickel [7440-02-0] ^	**2.23**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 13:18	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:54	VLO	
Silver [7440-22-4] ^	**2.20**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:18	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:54	VLO	
Vanadium [7440-62-2] ^	**4.59**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 13:18	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 13:18	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-DUP | **Lab Sample ID:** C204846-15 | **Received:** 04/26/12 13:20

Matrix: Ground Water | **Sampled:** 04/26/12 07:00 | **Work Order:** C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/09/12 01:46	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/09/12 01:46	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
1,1-Dichloroethane [75-34-3] ^	**2.3**	J	ug/L	1	0.13	1.0	5	EPA 8260B	05/09/12 01:46	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/09/12 01:46	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/09/12 01:46	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/09/12 01:46	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/09/12 01:46	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/09/12 01:46	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/09/12 01:46	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/09/12 01:46	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/09/12 01:46	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/09/12 01:46	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/09/12 01:46	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/09/12 01:46	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/09/12 01:46	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/09/12 01:46	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/09/12 01:46	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/09/12 01:46	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/09/12 01:46	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/09/12 01:46	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/09/12 01:46	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/09/12 01:46	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/09/12 01:46	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/09/12 01:46	JKG	
Chloroform [67-66-3] ^	**0.58**	J	ug/L	1	0.18	1.0	5	EPA 8260B	05/09/12 01:46	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/09/12 01:46	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/09/12 01:46	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/09/12 01:46	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/09/12 01:46	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/09/12 01:46	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/09/12 01:46	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/09/12 01:46	JKG	

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

Lab Sample ID: C204846-15
Sampled: 04/26/12 07:00
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/09/12 01:46	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/09/12 01:46	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/09/12 01:46	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/09/12 01:46	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/09/12 01:46	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/09/12 01:46	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/09/12 01:46	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/09/12 01:46	JKG	
Trichloroethene [79-01-6] ^	**0.43**	J	ug/L	1	0.15	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/09/12 01:46	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/09/12 01:46	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/09/12 01:46	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*2E08033*	*EPA 8260B*	*05/09/12 01:46*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*68-117*	*2E08033*	*EPA 8260B*	*05/09/12 01:46*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*67-127*	*2E08033*	*EPA 8260B*	*05/09/12 01:46*	*JKG*	

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Description:	9209-DUP	**Lab Sample ID:**	C204846-15	**Received:**	04/26/12 13:20
Matrix:	Ground Water	**Sampled:**	04/26/12 07:00	**Work Order:**	C204846
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	05/01/12 15:48	KER	

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

Lab Sample ID: C204846-15
Sampled: 04/26/12 07:00
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	**1.22**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 11:58	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 13:20	JDH	
Barium [7440-39-3] ^	**66.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 13:20	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 13:20	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 13:20	JDH	
Chromium [7440-47-3] ^	**5.53**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 13:20	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 13:20	JDH	
Copper [7440-50-8] ^	**6.45**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 13:20	JDH	J
Lead [7439-92-1] ^	**2.10**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:20	JDH	
Nickel [7440-02-0] ^	**2.20**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 13:20	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 11:58	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:20	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 11:58	VLO	
Vanadium [7440-62-2] ^	**3.78**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 13:20	JDH	
Zinc [7440-66-6] ^	**5.88**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 13:20	JDH	

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

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

Lab Sample ID: C204846-16
Sampled: 04/25/12 17:00
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/05/12 23:20	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/05/12 23:20	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/05/12 23:20	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 23:20	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 23:20	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 23:20	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/05/12 23:20	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/05/12 23:20	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 23:20	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	05/05/12 23:20	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/05/12 23:20	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/05/12 23:20	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 23:20	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/05/12 23:20	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/05/12 23:20	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	05/05/12 23:20	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	05/05/12 23:20	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/05/12 23:20	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/05/12 23:20	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/05/12 23:20	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/05/12 23:20	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/05/12 23:20	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 23:20	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/05/12 23:20	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/05/12 23:20	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	05/05/12 23:20	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/05/12 23:20	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/05/12 23:20	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/05/12 23:20	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/05/12 23:20	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	05/05/12 23:20	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	05/05/12 23:20	JKG	

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

Lab Sample ID: C204846-16
Sampled: 04/25/12 17:00
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/05/12 23:20	JKG	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	05/05/12 23:20	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	05/05/12 23:20	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	05/05/12 23:20	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	05/05/12 23:20	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	05/05/12 23:20	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/05/12 23:20	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/05/12 23:20	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/05/12 23:20	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/05/12 23:20	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/05/12 23:20	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*107 %*	*51-122*	*2E05002*	*EPA 8260B*	*05/05/12 23:20*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*2E05002*	*EPA 8260B*	*05/05/12 23:20*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*93 %*	*67-127*	*2E05002*	*EPA 8260B*	*05/05/12 23:20*	*JKG*	

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Description:	9209-EQBlank	**Lab Sample ID:**	C204846-16	**Received:**	04/26/12 13:20
Matrix:	Ground Water	**Sampled:**	04/25/12 17:00	**Work Order:**	C204846
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	05/01/12 15:50	KER	

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

Lab Sample ID: C204846-16
Sampled: 04/25/12 17:00
Sampled By: Aaron Weispfenning

Received: 04/26/12 13:20
Work Order: C204846

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	04/30/12 12:01	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/01/12 13:22	JDH	
Barium [7440-39-3] ^	1.00	U	ug/L	1	1.00	10.0	100	EPA 6010C	05/01/12 13:22	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/01/12 13:22	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/01/12 13:22	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/01/12 13:22	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/01/12 13:22	JDH	
Copper [7440-50-8] ^	**1.84**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	05/01/12 13:22	JDH	J
Lead [7439-92-1] ^	**2.21**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:22	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/01/12 13:22	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	04/30/12 12:01	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/01/12 13:22	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/30/12 12:01	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/01/12 13:22	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	05/01/12 13:22	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 2E02015 - EPA 5030B_MS

Blank (2E02015-BLK1) Prepared: 05/02/2012 10:02 Analyzed: 05/02/2012 12:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E02015 - EPA 5030B_MS

Blank (2E02015-BLK1) Continued Prepared: 05/02/2012 10:02 Analyzed: 05/02/2012 12:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*102*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*67-127*			

LCS (2E02015-BS1) Prepared: 05/02/2012 10:02 Analyzed: 05/02/2012 12:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		90	75-133			
Benzene	19		1.0	ug/L	20.0		94	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Toluene	18		1.0	ug/L	20.0		89	71-118			
Trichloroethene	20		1.0	ug/L	20.0		99	82-118			
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*108*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*67-127*			

Matrix Spike (2E02015-MS1) Prepared: 05/02/2012 10:02 Analyzed: 05/02/2012 13:28

Source: C204500-06

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	0.21 U	97	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	95	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	101	83-117			
Toluene	19		1.0	ug/L	20.0	0.14 U	93	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	104	82-118			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*99*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*103*	*67-127*			

Matrix Spike Dup (2E02015-MSD1) Prepared: 05/02/2012 10:02 Analyzed: 05/02/2012 13:57

Source: C204500-06

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E02015 - EPA 5030B_MS

Matrix Spike Dup (2E02015-MSD1) Continued Prepared: 05/02/2012 10:02 Analyzed: 05/02/2012 13:57

Source: C204500-06

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	0.21 U	101	75-133	5	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	97	81-134	2	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	99	83-117	2	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	94	71-118	0.4	17	
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	105	82-118	0.9	15	
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*99*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*103*	*67-127*			

Batch 2E04022 - EPA 5030B_MS

Blank (2E04022-BLK1) Prepared: 05/04/2012 12:30 Analyzed: 05/05/2012 00:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E04022 - EPA 5030B_MS

Blank (2E04022-BLK1) Continued Prepared: 05/04/2012 12:30 Analyzed: 05/05/2012 00:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*97*	*67-127*			

LCS (2E04022-BS1) Prepared: 05/04/2012 12:30 Analyzed: 05/05/2012 00:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		90	75-133			
Benzene	18		1.0	ug/L	20.0		88	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	18		1.0	ug/L	20.0		89	71-118			
Trichloroethene	19		1.0	ug/L	20.0		95	82-118			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*107*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*99*	*67-127*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E04022 - EPA 5030B_MS

Matrix Spike (2E04022-MS1) Prepared: 05/04/2012 12:30 Analyzed: 05/05/2012 01:12

Source: C205120-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	88	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	88	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	99	83-117			
Toluene	18		1.0	ug/L	20.0	0.14 U	92	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	98	82-118			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*107*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*95*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*67-127*			

Matrix Spike Dup (2E04022-MSD1) Prepared: 05/04/2012 12:30 Analyzed: 05/05/2012 01:41

Source: C205120-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.21 U	85	75-133	3	20	
Benzene	18		1.0	ug/L	20.0	0.15 U	89	81-134	1	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	100	83-117	1	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	88	71-118	4	17	
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	99	82-118	0.1	15	
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*107*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*101*	*67-127*			

Batch 2E05002 - EPA 5030B_MS

Blank (2E05002-BLK1) Prepared: 05/05/2012 12:28 Analyzed: 05/05/2012 13:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E05002 - EPA 5030B_MS

Blank (2E05002-BLK1) Continued Prepared: 05/05/2012 12:28 Analyzed: 05/05/2012 13:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*104*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*67-127*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E05002 - EPA 5030B_MS

LCS (2E05002-BS1) Prepared: 05/05/2012 12:28 Analyzed: 05/05/2012 13:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		89	75-133			
Benzene	17		1.0	ug/L	20.0		86	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	17		1.0	ug/L	20.0		86	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	82-118			
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*108*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*67-127*			

Matrix Spike (2E05002-MS1) Prepared: 05/05/2012 12:28 Analyzed: 05/05/2012 14:29

Source: C205153-07

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	0.21 U	95	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	89	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117			
Toluene	19		1.0	ug/L	20.0	0.14 U	96	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	102	82-118			
Surrogate: 4-Bromofluorobenzene	*55*			*ug/L*	*50.0*		*111*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*67-127*			

Matrix Spike Dup (2E05002-MSD1) Prepared: 05/05/2012 12:28 Analyzed: 05/05/2012 14:58

Source: C205153-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.21 U	98	75-133	3	20	
Benzene	18		1.0	ug/L	20.0	0.15 U	91	81-134	2	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117	0.05	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	94	71-118	2	17	
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	103	82-118	1	15	
Surrogate: 4-Bromofluorobenzene	*56*			*ug/L*	*50.0*		*112*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*67-127*			

Batch 2E07018 - EPA 5030B_MS

Blank (2E07018-BLK1) Prepared: 05/07/2012 11:56 Analyzed: 05/07/2012 15:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E07018 - EPA 5030B_MS

Blank (2E07018-BLK1) Continued Prepared: 05/07/2012 11:56 Analyzed: 05/07/2012 15:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E07018 - EPA 5030B_MS

Blank (2E07018-BLK1) Continued Prepared: 05/07/2012 11:56 Analyzed: 05/07/2012 15:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*107*	*51-122*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*85*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*67-127*			

LCS (2E07018-BS1) Prepared: 05/07/2012 11:56 Analyzed: 05/07/2012 15:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		88	75-133			
Benzene	17		1.0	ug/L	20.0		87	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		92	83-117			
Toluene	17		1.0	ug/L	20.0		86	71-118			
Trichloroethene	18		1.0	ug/L	20.0		92	82-118			
Surrogate: 4-Bromofluorobenzene	*55*			*ug/L*	*50.0*		*111*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*83*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*87*	*67-127*			

Matrix Spike (2E07018-MS1) Prepared: 05/07/2012 11:56 Analyzed: 05/07/2012 16:28

Source: C205209-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	88	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	88	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	94	83-117			
Toluene	17		1.0	ug/L	20.0	0.14 U	86	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	95	82-118			
Surrogate: 4-Bromofluorobenzene	*55*			*ug/L*	*50.0*		*111*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*84*	*68-117*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*87*	*67-127*			

Matrix Spike Dup (2E07018-MSD1) Prepared: 05/07/2012 11:56 Analyzed: 05/07/2012 16:57

Source: C205209-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.21 U	83	75-133	7	20	
Benzene	17		1.0	ug/L	20.0	0.15 U	86	81-134	2	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	92	83-117	2	16	
Toluene	16		1.0	ug/L	20.0	0.14 U	82	71-118	5	17	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E07018 - EPA 5030B_MS

Matrix Spike Dup (2E07018-MSD1) Continued Prepared: 05/07/2012 11:56 Analyzed: 05/07/2012 16:57

Source: C205209-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	90	82-118	5	15	
Surrogate: 4-Bromofluorobenzene	*55*			*ug/L*	*50.0*		*110*	*51-122*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*67-127*			

Batch 2E08033 - EPA 5030B_MS

Blank (2E08033-BLK1) Prepared: 05/08/2012 15:20 Analyzed: 05/08/2012 16:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E08033 - EPA 5030B_MS

Blank (2E08033-BLK1) Continued Prepared: 05/08/2012 15:20 Analyzed: 05/08/2012 16:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*89*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*91*	*67-127*			

LCS (2E08033-BS1) Prepared: 05/08/2012 15:20 Analyzed: 05/08/2012 16:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0		86	75-133			
Benzene	19		1.0	ug/L	20.0		96	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		101	83-117			
Toluene	19		1.0	ug/L	20.0		96	71-118			
Trichloroethene	21		1.0	ug/L	20.0		104	82-118			
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*93*	*51-122*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*95*	*67-127*			

Matrix Spike (2E08033-MS1) Prepared: 05/08/2012 15:20 Analyzed: 05/08/2012 17:00

Source: C205120-07

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 2E08033 - EPA 5030B_MS

Matrix Spike (2E08033-MS1) Continued Prepared: 05/08/2012 15:20 Analyzed: 05/08/2012 17:00

Source: C205120-07

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	0.21 U	94	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	101	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	106	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	103	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	112	82-118			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*91*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*93*	*67-127*			

Matrix Spike Dup (2E08033-MSD1) Prepared: 05/08/2012 15:20 Analyzed: 05/08/2012 17:29

Source: C205120-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0	0.21 U	78	75-133	19	20	
Benzene	17		1.0	ug/L	20.0	0.15 U	85	81-134	17	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	88	83-117	19	16	QM-11
Toluene	17		1.0	ug/L	20.0	0.14 U	83	71-118	21	17	QM-11
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	91	82-118	21	15	QM-11
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*93*	*67-127*			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2E03002 - EPA 3510C_MS

Blank (2E03002-BLK1) Prepared: 05/03/2012 09:50 Analyzed: 05/08/2012 20:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Surrogate: 2,4,6-Tribromophenol	*62*			*ug/L*	*100*		*62*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*33*			*ug/L*	*50.0*		*65*	*10-149*			
Surrogate: 2-Fluorophenol	*55*			*ug/L*	*100*		*55*	*10-110*			
Surrogate: Nitrobenzene-d5	*35*			*ug/L*	*50.0*		*69*	*10-149*			
Surrogate: Phenol-d5	*48*			*ug/L*	*100*		*48*	*10-88*			
Surrogate: Terphenyl-d14	*42*			*ug/L*	*50.0*		*83*	*10-188*			

LCS (2E03002-BS1) Prepared: 05/03/2012 09:50 Analyzed: 05/08/2012 21:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	38		10	ug/L	50.0		76	40-109			
4-Chloro-3-methylphenol	35		10	ug/L	50.0		71	58-121			
4-Nitrophenol	17		10	ug/L	50.0		34	33-105			
Acenaphthene	35		10	ug/L	50.0		71	39-125			
N-Nitroso-di-n-propylamine	33		10	ug/L	50.0		67	48-126			
Phenol	27		10	ug/L	50.0		54	19-78			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2E03002 - EPA 3510C_MS

LCS (2E03002-BS1) Continued Prepared: 05/03/2012 09:50 Analyzed: 05/08/2012 21:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Pyrene	36		10	ug/L	50.0		73	44-137			
Surrogate: 2,4,6-Tribromophenol	*60*			*ug/L*	*100*		*60*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*34*			*ug/L*	*50.0*		*69*	*10-149*			
Surrogate: 2-Fluorophenol	*58*			*ug/L*	*100*		*58*	*10-110*			
Surrogate: Nitrobenzene-d5	*37*			*ug/L*	*50.0*		*73*	*10-149*			
Surrogate: Phenol-d5	*49*			*ug/L*	*100*		*49*	*10-88*			
Surrogate: Terphenyl-d14	*35*			*ug/L*	*50.0*		*71*	*10-188*			

Matrix Spike (2E03002-MS1) Prepared: 05/03/2012 09:50 Analyzed: 05/08/2012 21:31

Source: C204966-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	30		10	ug/L	50.0	1.2 U	60	40-109			
4-Chloro-3-methylphenol	30		10	ug/L	50.0	1.5 U	60	58-121			
4-Nitrophenol	15		10	ug/L	50.0	2.0 U	31	33-105			QM-07
Acenaphthene	29		10	ug/L	50.0	1.4 U	58	39-125			
N-Nitroso-di-n-propylamine	27		10	ug/L	50.0	1.5 U	54	48-126			
Phenol	23		10	ug/L	50.0	1.4 U	46	19-78			
Pyrene	29		10	ug/L	50.0	2.1 U	59	44-137			
Surrogate: 2,4,6-Tribromophenol	*50*			*ug/L*	*100*		*50*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*27*			*ug/L*	*50.0*		*55*	*10-149*			
Surrogate: 2-Fluorophenol	*46*			*ug/L*	*100*		*46*	*10-110*			
Surrogate: Nitrobenzene-d5	*26*			*ug/L*	*50.0*		*53*	*10-149*			
Surrogate: Phenol-d5	*40*			*ug/L*	*100*		*40*	*10-88*			
Surrogate: Terphenyl-d14	*28*			*ug/L*	*50.0*		*57*	*10-188*			

Matrix Spike Dup (2E03002-MSD1) Prepared: 05/03/2012 09:50 Analyzed: 05/08/2012 21:57

Source: C204966-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	38		10	ug/L	50.0	1.2 U	77	40-109	25	22	QM-11
4-Chloro-3-methylphenol	40		10	ug/L	50.0	1.5 U	80	58-121	29	22	QM-11
4-Nitrophenol	21		10	ug/L	50.0	2.0 U	43	33-105	33	27	QM-11
Acenaphthene	39		10	ug/L	50.0	1.4 U	77	39-125	28	25	QM-11
N-Nitroso-di-n-propylamine	35		10	ug/L	50.0	1.5 U	71	48-126	27	23	QM-11
Phenol	27		10	ug/L	50.0	1.4 U	55	19-78	17	18	
Pyrene	37		10	ug/L	50.0	2.1 U	73	44-137	22	24	
Surrogate: 2,4,6-Tribromophenol	*67*			*ug/L*	*100*		*67*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*36*			*ug/L*	*50.0*		*72*	*10-149*			
Surrogate: 2-Fluorophenol	*59*			*ug/L*	*100*		*59*	*10-110*			
Surrogate: Nitrobenzene-d5	*38*			*ug/L*	*50.0*		*75*	*10-149*			
Surrogate: Phenol-d5	*49*			*ug/L*	*100*		*49*	*10-88*			
Surrogate: Terphenyl-d14	*35*			*ug/L*	*50.0*		*69*	*10-188*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 2D27007 - EPA 7470A

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Blank (2D27007-BLK1) Prepared: 04/27/2012 08:37 Analyzed: 04/27/2012 14:19

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 (2D27007-BS1) Prepared: 04/27/2012 08:37 Analyzed: 04/27/2012 14:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.95		0.200	ug/L	5.00		99	80-120			

Matrix Spike (2D27007-MS1) Prepared: 04/27/2012 08:37 Analyzed: 04/27/2012 14:25

Source: C203991-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.37		0.200	ug/L	5.00	0.538	77	75-125			

Matrix Spike Dup (2D27007-MSD1) Prepared: 04/27/2012 08:37 Analyzed: 04/27/2012 14:27

Source: C203991-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.47		0.200	ug/L	5.00	0.538	79	75-125	2	25	

Post Spike (2D27007-PS1) Prepared: 04/27/2012 08:37 Analyzed: 04/27/2012 14:29

Source: C203991-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.11		0.200	ug/L	5.00	0.538	71	75-125			

Batch 2E01004 - EPA 7470A

Blank (2E01004-BLK1) Prepared: 05/01/2012 08:26 Analyzed: 05/01/2012 14:49

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 (2E01004-BS1) Prepared: 05/01/2012 08:26 Analyzed: 05/01/2012 14:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.08		0.200	ug/L	5.00		102	80-120			

Matrix Spike (2E01004-MS1) Prepared: 05/01/2012 08:26 Analyzed: 05/01/2012 14:55

Source: C204754-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.94		0.200	ug/L	5.00	0.170 U	99	75-125			

Matrix Spike Dup (2E01004-MSD1) Prepared: 05/01/2012 08:26 Analyzed: 05/01/2012 14:57

Source: C204754-02

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 2E01004 - EPA 7470A

Matrix Spike Dup (2E01004-MSD1) Continued Prepared: 05/01/2012 08:26 Analyzed: 05/01/2012 14:57

Source: C204754-02

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	3	25	

Post Spike (2E01004-PS1) Prepared: 05/01/2012 08:26 Analyzed: 05/01/2012 14:59

Source: C204754-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.62		0.200	ug/L	5.00	-0.0740	94	75-125			

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

Batch 2D26007 - EPA 3005A

Blank (2D26007-BLK1) Prepared: 04/26/2012 08:30 Analyzed: 04/27/2012 11:23

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 (2D26007-BS1) Prepared: 04/26/2012 08:30 Analyzed: 04/27/2012 11:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	190		10.0	ug/L	200		95	80-120			
Barium	194		10.0	ug/L	200		97	80-120			
Beryllium	19.1		1.00	ug/L	20.0		95	80-120			
Cadmium	19.7		1.00	ug/L	20.0		99	80-120			
Chromium	191		10.0	ug/L	200		96	80-120			
Cobalt	202		10.0	ug/L	200		101	80-120			
Copper	188		10.0	ug/L	200		94	80-120			
Lead	196		10.0	ug/L	200		98	80-120			
Nickel	194		10.0	ug/L	200		97	80-120			
Silver	194		10.0	ug/L	200		97	80-120			
Vanadium	194		10.0	ug/L	200		97	80-120			
Zinc	190		10.0	ug/L	200		95	80-120			

Matrix Spike (2D26007-MS1) Prepared: 04/26/2012 08:30 Analyzed: 04/27/2012 11:31

Source: C203991-01

QUALITY CONTROL

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

Batch 2D26007 - EPA 3005A

Matrix Spike (2D26007-MS1) Continued Prepared: 04/26/2012 08:30 Analyzed: 04/27/2012 11:31

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	186		10.0	ug/L	200	2.80 U	93	75-125			
Barium	294		10.0	ug/L	200	97.3	98	75-125			
Beryllium	19.5		1.00	ug/L	20.0	0.100 U	97	75-125			
Cadmium	20.1		1.00	ug/L	20.0	0.360 U	101	75-125			
Chromium	195		10.0	ug/L	200	2.79	96	75-125			
Cobalt	194		10.0	ug/L	200	1.10 U	97	75-125			
Copper	188		10.0	ug/L	200	1.60 U	94	75-125			
Lead	188		10.0	ug/L	200	1.90 U	94	75-125			
Nickel	198		10.0	ug/L	200	2.47	98	75-125			
Silver	195		10.0	ug/L	200	1.90 U	98	75-125			
Vanadium	195		10.0	ug/L	200	1.40 U	97	75-125			
Zinc	198		10.0	ug/L	200	4.28	97	75-125			

Matrix Spike Dup (2D26007-MSD1) Prepared: 04/26/2012 08:30 Analyzed: 04/27/2012 11:33

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	191		10.0	ug/L	200	2.80 U	96	75-125	3	20	
Barium	295		10.0	ug/L	200	97.3	99	75-125	0.2	20	
Beryllium	19.5		1.00	ug/L	20.0	0.100 U	97	75-125	0.05	20	
Cadmium	20.4		1.00	ug/L	20.0	0.360 U	102	75-125	1	20	
Chromium	195		10.0	ug/L	200	2.79	96	75-125	0.3	20	
Cobalt	196		10.0	ug/L	200	1.10 U	98	75-125	1	20	
Copper	188		10.0	ug/L	200	1.60 U	94	75-125	0.1	20	
Lead	190		10.0	ug/L	200	1.90 U	95	75-125	1	20	
Nickel	200		10.0	ug/L	200	2.47	99	75-125	1	20	
Silver	195		10.0	ug/L	200	1.90 U	98	75-125	0.1	20	
Vanadium	195		10.0	ug/L	200	1.40 U	98	75-125	0.4	20	
Zinc	199		10.0	ug/L	200	4.28	97	75-125	0.6	20	

Post Spike (2D26007-PS1) Prepared: 04/26/2012 08:30 Analyzed: 04/27/2012 11:35

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.189		0.0100	mg/L	0.200	-0.000819	95	80-120			
Barium	0.290		0.0100	mg/L	0.200	0.0973	96	80-120			
Beryllium	0.0189		0.00100	mg/L	0.0200	3.70E-5	94	80-120			
Cadmium	0.0199		0.00100	mg/L	0.0200	0.000120	99	80-120			
Chromium	0.189		0.0100	mg/L	0.200	0.00279	93	80-120			
Cobalt	0.191		0.0100	mg/L	0.200	0.000575	95	80-120			
Copper	0.182		0.0100	mg/L	0.200	-0.000702	91	80-120			
Lead	0.187		0.0100	mg/L	0.200	-0.000362	94	80-120			
Nickel	0.194		0.0100	mg/L	0.200	0.00247	96	80-120			
Silver	0.196		0.0100	mg/L	0.200	-0.000137	98	80-120			
Vanadium	0.189		0.0100	mg/L	0.200	-1.93E-5	95	80-120			
Zinc	0.196		0.0100	mg/L	0.200	0.00428	96	80-120			

QUALITY CONTROL

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

Batch 2D26007 - EPA 3005A

Batch 2D26008 - EPA 3005A

Blank (2D26008-BLK1) Prepared: 04/26/2012 08:33 Analyzed: 04/30/2012 12:05

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 (2D26008-BS1) Prepared: 04/26/2012 08:33 Analyzed: 04/30/2012 13:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	205		2.00	ug/L	200		102	80-120			
Selenium	205		1.00	ug/L	200		102	80-120			
Thallium	199		1.00	ug/L	200		99	80-120			

Matrix Spike (2D26008-MS1) Prepared: 04/26/2012 08:33 Analyzed: 04/30/2012 12:16

Source: C203991-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	213		2.00	ug/L	200	0.937	106	75-125			
Selenium	226		1.00	ug/L	200	0.830 U	113	75-125			
Thallium	201		1.00	ug/L	200	0.110 U	100	75-125			

Matrix Spike Dup (2D26008-MSD1) Prepared: 04/26/2012 08:33 Analyzed: 04/30/2012 12:20

Source: C203991-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	216		2.00	ug/L	200	0.937	107	75-125	1	20	
Selenium	223		1.00	ug/L	200	0.830 U	112	75-125	2	20	
Thallium	201		1.00	ug/L	200	0.110 U	100	75-125	0.03	20	

Post Spike (2D26008-PS1) Prepared: 04/26/2012 08:33 Analyzed: 04/30/2012 12:31

Source: C203991-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	216		2.00	ug/L	200	0.937	107	80-120			
Selenium	227		1.00	ug/L	200	0.818	113	80-120			
Thallium	204		1.00	ug/L	200	0.0917	102	80-120			

Batch 2D27003 - EPA 3005A

Blank (2D27003-BLK1) Prepared: 04/27/2012 08:20 Analyzed: 05/01/2012 12:25

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 2D27003 - EPA 3005A

Blank (2D27003-BLK1) Continued Prepared: 04/27/2012 08:20 Analyzed: 05/01/2012 12:25

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	**2.00**	**J**	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 (2D27003-BS1) Prepared: 04/27/2012 08:20 Analyzed: 05/01/2012 12:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	204		10.0	ug/L	200		102	80-120			
Barium	212		10.0	ug/L	200		106	80-120			
Beryllium	20.1		1.00	ug/L	20.0		100	80-120			
Cadmium	21.6		1.00	ug/L	20.0		108	80-120			
Chromium	203		10.0	ug/L	200		102	80-120			
Cobalt	209		10.0	ug/L	200		104	80-120			
Copper	199	B	10.0	ug/L	200		100	80-120			
Lead	212		10.0	ug/L	200		106	80-120			
Nickel	213		10.0	ug/L	200		107	80-120			
Silver	205		10.0	ug/L	200		103	80-120			
Vanadium	205		10.0	ug/L	200		102	80-120			
Zinc	212		10.0	ug/L	200		106	80-120			

Matrix Spike (2D27003-MS1) Prepared: 04/27/2012 08:20 Analyzed: 05/01/2012 12:31

Source: C204846-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	205		10.0	ug/L	200	2.80 U	103	75-125			
Barium	282		10.0	ug/L	200	72.0	105	75-125			
Beryllium	20.6		1.00	ug/L	20.0	0.100 U	103	75-125			
Cadmium	21.6		1.00	ug/L	20.0	0.360 U	108	75-125			
Chromium	210		10.0	ug/L	200	5.68	102	75-125			
Cobalt	209		10.0	ug/L	200	1.10 U	104	75-125			
Copper	207	B	10.0	ug/L	200	7.24	100	75-125			
Lead	212		10.0	ug/L	200	2.37	105	75-125			
Nickel	213		10.0	ug/L	200	2.61	105	75-125			
Silver	207		10.0	ug/L	200	1.90 U	103	75-125			
Vanadium	212		10.0	ug/L	200	4.00	104	75-125			
Zinc	219		10.0	ug/L	200	6.97	106	75-125			

Matrix Spike Dup (2D27003-MSD1) Prepared: 04/27/2012 08:20 Analyzed: 05/01/2012 12:33

Source: C204846-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	207		10.0	ug/L	200	2.80 U	104	75-125	1	20	
Barium	289		10.0	ug/L	200	72.0	108	75-125	2	20	

QUALITY CONTROL

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

Batch 2D27003 - EPA 3005A

Matrix Spike Dup (2D27003-MSD1) Continued Prepared: 04/27/2012 08:20 Analyzed: 05/01/2012 12:33

Source: C204846-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Beryllium	21.0		1.00	ug/L	20.0	0.100 U	105	75-125	2	20	
Cadmium	22.2		1.00	ug/L	20.0	0.360 U	111	75-125	3	20	
Chromium	213		10.0	ug/L	200	5.68	104	75-125	2	20	
Cobalt	214		10.0	ug/L	200	1.10 U	107	75-125	2	20	
Copper	211	B	10.0	ug/L	200	7.24	102	75-125	2	20	
Lead	216		10.0	ug/L	200	2.37	107	75-125	2	20	
Nickel	218		10.0	ug/L	200	2.61	108	75-125	2	20	
Silver	211		10.0	ug/L	200	1.90 U	105	75-125	2	20	
Vanadium	216		10.0	ug/L	200	4.00	106	75-125	2	20	
Zinc	224		10.0	ug/L	200	6.97	108	75-125	2	20	

Post Spike (2D27003-PS1) Prepared: 04/27/2012 08:20 Analyzed: 05/01/2012 12:35

Source: C204846-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.208		0.0100	mg/L	0.200	-0.00827	108	80-120			
Barium	0.286		0.0100	mg/L	0.200	0.0720	107	80-120			
Beryllium	0.0207		0.00100	mg/L	0.0200	-2.06E-5	104	80-120			
Cadmium	0.0219		0.00100	mg/L	0.0200	-0.000108	110	80-120			
Chromium	0.211		0.0100	mg/L	0.200	0.00568	103	80-120			
Cobalt	0.212		0.0100	mg/L	0.200	0.000763	106	80-120			
Copper	0.208	B	0.0100	mg/L	0.200	0.00724	100	80-120			
Lead	0.215		0.0100	mg/L	0.200	0.00237	106	80-120			
Nickel	0.216		0.0100	mg/L	0.200	0.00261	107	80-120			
Silver	0.215		0.0100	mg/L	0.200	0.00155	107	80-120			
Vanadium	0.213		0.0100	mg/L	0.200	0.00400	105	80-120			
Zinc	0.236		0.0100	mg/L	0.200	0.00697	114	80-120			

Batch 2D27005 - EPA 3005A

Blank (2D27005-BLK1) Prepared: 04/27/2012 08:28 Analyzed: 04/30/2012 10:17

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 (2D27005-BS1) Prepared: 04/27/2012 08:28 Analyzed: 04/30/2012 10:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	198		2.00	ug/L	200		99	80-120			
Selenium	222		1.00	ug/L	200		111	80-120			
Thallium	191		1.00	ug/L	200		96	80-120			

Matrix Spike (2D27005-MS1) Prepared: 04/27/2012 08:28 Analyzed: 04/30/2012 10:28

Source: C204846-03

QUALITY CONTROL

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

Batch 2D27005 - EPA 3005A

Matrix Spike (2D27005-MS1) Continued Prepared: 04/27/2012 08:28 Analyzed: 04/30/2012 10:28

Source: C204846-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	197		2.00	ug/L	200	1.63	98	75-125			
Selenium	211		1.00	ug/L	200	0.830 U	106	75-125			
Thallium	185		1.00	ug/L	200	0.110 U	92	75-125			

Matrix Spike Dup (2D27005-MSD1) Prepared: 04/27/2012 08:28 Analyzed: 04/30/2012 10:32

Source: C204846-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	203		2.00	ug/L	200	1.63	101	75-125	3	20	
Selenium	219		1.00	ug/L	200	0.830 U	109	75-125	4	20	
Thallium	186		1.00	ug/L	200	0.110 U	93	75-125	0.9	20	

Post Spike (2D27005-PS1) Prepared: 04/27/2012 08:28 Analyzed: 04/30/2012 10:35

Source: C204846-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	207		2.00	ug/L	200	1.63	103	80-120			
Selenium	219		1.00	ug/L	200	0.730	109	80-120			
Thallium	186		1.00	ug/L	200	0.0620	93	80-120			

Classical Chemistry Parameters - Quality Control

Batch 2D25028 - NO PREP

Blank (2D25028-BLK1) Prepared: 04/25/2012 13:04 Analyzed: 04/25/2012 16:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	**20**	**J**	100	ug/L							

LCS (2D25028-BS1) Prepared: 04/25/2012 13:04 Analyzed: 04/25/2012 16:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0	B	0.1	mg/L	1.00		100	90-110			

Matrix Spike (2D25028-MS1) Prepared: 04/25/2012 13:04 Analyzed: 04/25/2012 16:07

Source: C204160-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0	B	0.1	mg/L	1.00	0.02	97	90-110			

Matrix Spike Dup (2D25028-MSD1) Prepared: 04/25/2012 13:04 Analyzed: 04/25/2012 16:08

Source: C204160-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0	B	0.1	mg/L	1.00	0.02	101	90-110		10	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 2D25032 - NO PREP

Blank (2D25032-BLK1) Prepared & Analyzed: 04/25/2012 17:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2000	U	2000	ug/L							B-03

LCS (2D25032-BS1) Prepared & Analyzed: 04/25/2012 17:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	200		2	mg/L	198		105	85-115			

Duplicate (2D25032-DUP1) Prepared & Analyzed: 04/25/2012 17:17

Source: C203657-02

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 2D26033 - NO PREP

Blank (2D26033-BLK1) Prepared & Analyzed: 04/26/2012 16:45

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 (2D26033-BS1) Prepared & Analyzed: 04/26/2012 16:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	200		2	mg/L	198		93	85-115			

Duplicate (2D26033-DUP1) Prepared & Analyzed: 04/26/2012 16:45

Source: C203707-01

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 2D29003 - NO PREP

Blank (2D29003-BLK1) Prepared: 04/29/2012 14:28 Analyzed: 04/29/2012 16:54

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 (2D29003-BS1) Prepared: 04/29/2012 14:28 Analyzed: 04/29/2012 16:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1		0.1	mg/L	1.25		100	90-110			

Matrix Spike (2D29003-MS1) Prepared: 04/29/2012 14:28 Analyzed: 04/29/2012 17:01

Source: C202640-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 2D29003 - NO PREP

Matrix Spike (2D29003-MS1) Continued Prepared: 04/29/2012 14:28 Analyzed: 04/29/2012 17:01

Source: C202640-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.8		0.1	mg/L	0.513	0.3	99	90-110			

Matrix Spike Dup (2D29003-MSD1) Prepared: 04/29/2012 14:28 Analyzed: 04/29/2012 17:03

Source: C202640-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.8		0.1	mg/L	0.513	0.3	97	90-110		10	

Batch 2D30001 - NO PREP

Blank (2D30001-BLK1) Prepared: 04/30/2012 06:39 Analyzed: 04/30/2012 08:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	12000	U	15000	ug/L							

LCS (2D30001-BS1) Prepared: 04/30/2012 06:39 Analyzed: 04/30/2012 08:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	100		20	mg/L	100		104	80-120			

Matrix Spike (2D30001-MS1) Prepared: 04/30/2012 06:39 Analyzed: 04/30/2012 08:18

Source: C203657-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	200		20	mg/L	40.0	100	99	80-120			

Matrix Spike Dup (2D30001-MSD1) Prepared: 04/30/2012 06:39 Analyzed: 04/30/2012 08:19

Source: C203657-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	200		20	mg/L	40.0	100	95	80-120		25	

Batch 2D30018 - NO PREP

Blank (2D30018-BLK1) Prepared: 04/30/2012 09:22 Analyzed: 05/01/2012 19:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	430	U	5000	ug/L							
Sulfate as SO4	40	U	5000	ug/L							

LCS (2D30018-BS1) Prepared: 04/30/2012 09:22 Analyzed: 05/01/2012 19:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	50		5	mg/L	50.0		101	90-110			
Sulfate as SO4	50		5	mg/L	50.0		100	90-110			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 2D30018 - NO PREP

Matrix Spike (2D30018-MS1) Prepared: 04/30/2012 09:22 Analyzed: 05/01/2012 20:07

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	20		5	mg/L	20.0	2	90	90-110			
Sulfate as SO4	20		5	mg/L	20.0	3	91	90-110			

Matrix Spike Dup (2D30018-MSD1) Prepared: 04/30/2012 09:22 Analyzed: 05/01/2012 20:24

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	20		5	mg/L	20.0	2	89	90-110		10	QM-05
Sulfate as SO4	20		5	mg/L	20.0	3	90	90-110		10	

Batch 2D30029 - NO PREP

Blank (2D30029-BLK1) Prepared: 04/30/2012 15:18 Analyzed: 04/30/2012 15:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L							

LCS (2D30029-BS1) Prepared: 04/30/2012 15:18 Analyzed: 04/30/2012 15:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.4		0.1	mg/L	0.401		89	80-120			

Matrix Spike (2D30029-MS1) Prepared: 04/30/2012 15:18 Analyzed: 04/30/2012 15:27

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.2		0.1	mg/L	0.401	-0.008	65	80-120			QM-05

Matrix Spike Dup (2D30029-MSD1) Prepared: 04/30/2012 15:18 Analyzed: 04/30/2012 15:27

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.3		0.1	mg/L	0.401	-0.008	70	80-120		25	QM-05

Batch 2E01009 - Same

Blank (2E01009-BLK1) Prepared: 05/01/2012 11:20 Analyzed: 05/01/2012 14:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	10000	U	10000	ug/L							

LCS (2E01009-BS1) Prepared: 05/01/2012 11:20 Analyzed: 05/01/2012 14:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	500		10	mg/L	500		101	90-110			

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 2E01009 - Same

Matrix Spike (2E01009-MS1) Prepared: 05/01/2012 11:20 Analyzed: 05/01/2012 14:45

Source: C202640-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	500		10	mg/L	500	40	101	90-110			

Matrix Spike Dup (2E01009-MSD1) Prepared: 05/01/2012 11:20 Analyzed: 05/01/2012 14:45

Source: C202640-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	500		10	mg/L	500	40	100	90-110		10	

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 2D27009 - Same

Blank (2D27009-BLK1) Prepared: 04/27/2012 09:48 Analyzed: 04/27/2012 10:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	270	U	2500	ug/L							
Ethane	0.200	U	2.00	ug/L							
Ethene	0.540	U	3.00	ug/L							
Methane	0.430	U	1.00	ug/L							

LCS (2D27009-BS1) Prepared: 04/27/2012 09:48 Analyzed: 04/27/2012 10:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	51100		2.50	mg/L	50400		101	71-120			
Ethane	567		0.002	mg/L	500		113	75-123			
Ethene	556		0.003	mg/L	500		111	72-131			
Methane	541		0.001	mg/L	500		108	74-120			

LCS Dup (2D27009-BSD1) Prepared: 04/27/2012 09:48 Analyzed: 04/27/2012 10:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	50100		2.50	mg/L	50400		99	71-120	2	10	
Ethane	557		0.002	mg/L	500		111	75-123	2	14	
Ethene	545		0.003	mg/L	500		109	72-131	2	12	
Methane	535		0.001	mg/L	500		107	74-120	1	18	

Duplicate (2D27009-DUP1) Prepared: 04/27/2012 09:48 Analyzed: 04/27/2012 13:46

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	312000	D	25000	ug/L		321000			3	30	
Ethane	2.00	UD	20.0	ug/L		2.00 U				30	
Ethene	5.40	UD	30.0	ug/L		5.40 U				30	
Methane	4.30	UD	10.0	ug/L		4.30 U				30	

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 2D27009 - Same

Volatile Fatty Acids by HPLC - Quality Control

Batch 2E07022 - NO PREP

Blank (2E07022-BLK1) Prepared: 05/07/2012 13:31 Analyzed: 05/07/2012 14:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	40	U	70	ug/L							
Butyric Acid	24	U	70	ug/L							
Hexanoic Acid	87	U	100	ug/L							
iso-Hexanoic Acid	89	U	100	ug/L							
iso-Pentanoic Acid	62	U	70	ug/L							
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid)	62	U	140	ug/L							
Pentanoic Acid	48	U	70	ug/L							
Propionic Acid	57	U	70	ug/L							
Pyruvic Acid	61	U	70	ug/L							
Surrogate: Trimethylacetic acid	*20000*			*ug/L*	*20000*		*100*	*80-124*			

LCS (2E07022-BS1) Prepared: 05/07/2012 13:31 Analyzed: 05/07/2012 22:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	20000		70	ug/L	20000		101	73-125			
Butyric Acid	20000		70	ug/L	20000		99	80-120			
Hexanoic Acid	23000		100	ug/L	20000		113	78-120			
iso-Hexanoic Acid	22000		100	ug/L	20000		108	80-120			
iso-Pentanoic Acid	21000		70	ug/L	20000		106	78-120			
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid)	41000		140	ug/L	40000		103	70-130			
Pentanoic Acid	19000		70	ug/L	20000		94	77-120			
Propionic Acid	18000		70	ug/L	20000		90	80-120			
Pyruvic Acid	20000		70	ug/L	20000		102	37-142			
Surrogate: Trimethylacetic acid	*21000*			*ug/L*	*20000*		*106*	*80-124*			

Matrix Spike (2E07022-MS1) Prepared: 05/07/2012 13:31 Analyzed: 05/07/2012 15:53

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	22000		70	ug/L	21100	40 U	103	73-125			
Butyric Acid	21000		70	ug/L	21100	24 U	101	80-120			
Hexanoic Acid	27000		100	ug/L	21100	87 U	130	78-120			QM-07
iso-Hexanoic Acid	27000		100	ug/L	21100	89 U	128	80-120			QM-07
iso-Pentanoic Acid	24000		70	ug/L	21100	62 U	113	78-120			
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid)	43000		140	ug/L	42100	62 U	103	70-130			
Pentanoic Acid	23000		70	ug/L	21100	48 U	112	77-120			
Propionic Acid	21000		70	ug/L	21100	57 U	99	80-120			
Pyruvic Acid	21000		70	ug/L	21100	61 U	99	37-142			
Surrogate: Trimethylacetic acid	*23000*			*ug/L*	*21100*		*107*	*80-124*			

Matrix Spike Dup (2E07022-MSD1) Prepared: 05/07/2012 13:31 Analyzed: 05/07/2012 16:16

Source: C203991-01

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 2E07022 - NO PREP

Matrix Spike Dup (2E07022-MSD1) Continued Prepared: 05/07/2012 13:31 Analyzed: 05/07/2012 16:16

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	22000		70	ug/L	21100	40 U	102	73-125	0.9	10	
Butyric Acid	21000		70	ug/L	21100	24 U	100	80-120	0.8	10	
Hexanoic Acid	27000		100	ug/L	21100	87 U	129	78-120	0.9	34	QM-07
iso-Hexanoic Acid	27000		100	ug/L	21100	89 U	128	80-120	0.09	15	QM-07
iso-Pentanoic Acid	24000		70	ug/L	21100	62 U	112	78-120	1	15	
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid)	43000		140	ug/L	42100	62 U	102	70-130	0.6	30	
Pentanoic Acid	23000		70	ug/L	21100	48 U	110	77-120	1	10	
Propionic Acid	20000		70	ug/L	21100	57 U	93	80-120	6	10	
Pyruvic Acid	21000		70	ug/L	21100	61 U	98	37-142	1	10	
Surrogate: Trimethylacetic acid	*23000*			*ug/L*	*21100*		*108*	*80-124*			

Classical Chemistry Parameters - Quality Control

Batch 2D30006 - NO PREP

Blank (2D30006-BLK1) Prepared: 04/30/2012 09:02 Analyzed: 04/30/2012 13:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	280	U	1000	ug/L							

LCS (2D30006-BS1) Prepared: 04/30/2012 09:02 Analyzed: 04/30/2012 13:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	42000		1000	ug/L	40000		106	80-120			

Matrix Spike (2D30006-MS1) Prepared: 04/30/2012 09:02 Analyzed: 04/30/2012 13:54

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	44000		1000	ug/L	40000	1100	107	80-120			

Matrix Spike Dup (2D30006-MSD1) Prepared: 04/30/2012 09:02 Analyzed: 04/30/2012 14:20

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	44000		1000	ug/L	40000	1100	108	80-120	1	25	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 2E07008 - NO PREP

Blank (2E07008-BLK1) Prepared: 05/07/2012 07:46 Analyzed: 05/07/2012 08:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron, Ferrous	46	U	50	ug/L							

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 2E07008 - NO PREP

LCS (2E07008-BS1) Prepared: 05/07/2012 07:46 Analyzed: 05/07/2012 08:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron, Ferrous	1600		50	ug/L	1500		106	88-114			

Matrix Spike (2E07008-MS1) Prepared: 05/07/2012 07:46 Analyzed: 05/07/2012 08:18

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron, Ferrous	1600		50	ug/L	1500	46 U	106	88-114			

Matrix Spike Dup (2E07008-MSD1) Prepared: 05/07/2012 07:46 Analyzed: 05/07/2012 08:18

Source: C203991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron, Ferrous	1600		50	ug/L	1500	46 U	108	88-114	1	11	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
B-03	Blank exceeds the method required oxygen depletion of < 0.2 mg/L.
J-01	Result is estimated due to positive results in the associated method blank.
Q	Analysis performed outside of method - specified holding time.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
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-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.

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Page 1A of 3

Client Name: CDM Smith, Inc. (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: 325-3566 Fax: ()-	Reporting Contact: Dan Forbes
Sampler(s) Name, Affiliation (Print): Aaron Weisefanning CDM Smith	Billing Contact: Anarosa Jones
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: C203991

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	8270D 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	Sample Comments
	9209-MW5R	4/24/12	1600	G	GW	18	X		X	X	X	X	X	X	X	X	report results according
	9209-MW6	4/24/12	1710	G	GW	18	X		X	X	X	X	X	X	X	X	to SWS guidelines
	9209-MW6d				GW	4	X		X						X		provide edd
	9209-MW7				GW	4	X		X						X		report "J" values
	9209-MW8	4/24/12	1240	G	GW	18	X		X	X	X	X	X	X	X	X	
	9209-MW8d				GW	4	X		X						X		
	9209-MW9	4/25/12	815	G	GW	18	X		X	X	X	X	X	X	X		
	9209-MW10	4/25/12	900	G	GW	18	X		X	X	X	X	X	X	X		
	9209-MW10d				GW	4	X		X						X		
	9209-MW11	4/25/12	700	G	GW	18	X		X	X	X	X	X	X	X		
	9209-MW11d				GW	4	X		X						X		
	9209-MW22	4/25/12	930	G	GW	4	X		X						X		

<-- Total # of Containers

Sample Kit Prepared By: UMES/BG	Date/Time: 4/4/12	Relinquished By: [signature]	Date/Time: 4/25/12 1110	Received By: [signature]	Date/Time: 4/25/12 1110
Comments/Special Reporting Requirements		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By: [signature]	Date/Time: 4/25/12 1110
		Cooler #'s & Temps on Receipt: C-398 2.2°C ~~C-517~~ ~~Blue~~ C-631 1.9°C C-421 0.7°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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Cary, NC 27511
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Page 1B of 3

Client Name: CDM Smith, Inc. (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: 325-3566 Fax: () -	Reporting Contact: Dan Forbes
Sampler(s) Name, Affiliation (Print): Aaron Weisfeiniy	Billing Contact: Anarosa Jones
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: C203991

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	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B					Sample Comments
	9209-MW5R	4/24/12	1600	G	GW	18	X	X		X	X	X					See page 1
	9209-MW6	4/24/12	1710	G	GW	18	X	X		X	X	X					
	9209-MW6d				GW	4											
	9209-MW7				GW	4											
	9209-MW8	4/24/12	1240	G	GW	18	X	X		X	X	X					
	9209-MW8d				GW	4											
	9209-MW9	4/25/12	815	G	GW	18	X	X	X	X	X	X					
	9209-MW10	4/25/12	900	G	GW	18	X	X	X	X	X	X					
	9209-MW10d				GW	4											
	9209-MW11	4/25/12	700	G	GW	18	X	X	X	X	X	X					
	9209-MW11d				GW	4											
	9209-MW22	4/25/12	930	G	GW	4											

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
MES/BG	4/4/12		4/25/12 1110		4/25/12 1110
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time 4/25/12 110

Cooler #'s & Temps on Receipt: C-398 2.2°C C-517 Blue C-63 1.1°C C-421 0.7°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 2A of 3

Client Name: CDM Smith, Inc. (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: 325-3566 Fax: () -	Reporting Contact: Dan Forbes
Sampler(s) Name, Affiliation (Print): Aaron Weisperning	Billing Contact: Anarosa Jones
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: C203991

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	8270D 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	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-MW28				GW	4	X		X						X		
	9209-MW28d				GW	4	X		X						X		
	9209-MW29d				GW	5	X	X	X						X		
	9209-MW30	4/25/12	1050	G	GW	4	X		X						X		
	9209-MW31	4/25/12	1000	G	GW	4	X		X						X		
	9209-MW31d	4/24/12	930	G	GW	4	X		X						X		
	9209-MW32	4/25/12	1040	G	GW	4	X		X						X		
	9209-TB1a	4/25/12	1030	G	GW	4	X		X						X		
	9209-TB1ad	4/24/12	1030	G	GW	4	X		X						X		

<-- Total # of Containers

Sample Kit Prepared By: UMES/BG	Date/Time: 4/4/12	Relinquished By: [signature]	Date/Time: 4/25/12 1110	Received By: [signature]	Date/Time: 4/25/12 1110
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: [signature]	Date/Time: 4/25/12 110
		Cooler #'s & Temps on Receipt: C-398 2.2°C C-517 Blue C-63 1.1°C C-42 [illegible]		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

Client Name: CDM Smith, Inc. (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: 325-3566 Fax: () -	Reporting Contact: Dan Forbes
Sampler(s) Name, Affiliation (Print): Aaron Weisperning	Billing Contact: Anarosa Jones
Sampler(s) Signature:	Site Location / Time Zone:

Requested Analyses: Nitrate Calc 353.2; NOX 353.2; RSK 175 + CO2; Sulfate 300; Sulfide SM4500-S D; TOC SM5310B

Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C203991

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Sample Comments
	9209-MW23				GW	4	See page 1
	9209-MW23d				GW	4	
	9209-MW24				GW	4	
	9209-MW28				GW	4	
	9209-MW28d				GW	4	
	9209-MW29d				GW	5	
	9209-MW30	4/25/12	1050	G	GW	4	
	9209-MW31	4/25/12	1000	G	GW	4	
	9209-MW31d	4/24/12	930	G	GW	4	
	9209-MW32	4/25/12	1040	G	GW	4	
	9209-TB1a	4/25/12	1030	G	GW	4	
	9209-TB1ad	4/24/12	1030	G	GW	4	

<-- Total # of Containers

Sample Kit Prepared By: MES/BG	Date/Time: 4/4/12	Relinquished By:	Date/Time: 4/25/12 1110	Received By:	Date/Time: 4/25/12 1110
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time: 4/25/12 110
		Cooler #'s & Temps on Receipt: C-398 2.2°C C-517 Blue C-63 1.1°C C-421 0.7°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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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 3A of 3

Client Name: CDM Smith, Inc. (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: 325-3566 Fax: () -	Reporting Contact: Dan Forbes
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning	Billing Contact: Anarosa Jones
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: C203991

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	8270D 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	Sample Comments
	9209-MW33	4/25/12	950	G	GW	4	X		X						X		See page 1
	9209-MW34				GW	4	X		X						X		
	9209-MW34d				GW	4	X		X						X		
	9209-MW35	4/25/12	940	G	GW	4	X		X						X		
	9209-MW36	4/25/12	745	G	GW	18	X		X	X	X	X	X	X	X		
	9209-MW36d				GW	4	X		X						X		
	9209-DUP				GW	4	X		X						X		
	9209-EQBlank				WA	4	X		X						X		
	9209-TripBlank	4/25/12	—	—	WA	2	X										

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
MES / BG	4/4/12	[signature]	4/25/12 1110	[signature]	4/25/12 1110
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time 4/25/12 110

Cooler #'s & Temps on Receipt: C-398 2.2°C -517 Blue C-63 1.1°C C-421 0.7°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 3B of 3

Client Name: CDM Smith, Inc. (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: 325-3566 Fax: () -	Reporting Contact: Dan Forbes
Sampler(s) Name, Affiliation (Print): Aaron Weisperning	Billing Contact: Anarosa Jones
Sampler(s) Signature:	Site Location / Time Zone:

Requested Analyses: Nitrate Calc 353.2; 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: C203991

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B					Sample Comments
	9209-MW33	4/25/12	950	G	GW	4											See page 1
	9209-MW34				GW	4											
	9209-MW34d				GW	4											
	9209-MW35	4/25/12	940	G	GW	4											
	9209-MW36	4/25/12	745	G	GW	18	X	X	X	X	X	X					
	9209-MW36d				GW	4											
	9209-DUP				GW	4											
	9209-EQBlank				WA	4											
	9209-TripBlank	4/25/12	—	—	WA	2											

<-- Total # of Containers

Sample Kit Prepared By: JMES / BG	Date/Time: 4/4/12	Relinquished By:	Date/Time: 4/25/12 1110	Received By:	Date/Time: 4/25/12 1110
Comments/Special Reporting Requirements		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time: 4/25/12 110
		Cooler #'s & Temps on Receipt: C-398 22°C C-517 Blue C-63 4.1°C C-421 0.7°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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Page 1 of 6

Client Name: CDM Smith, Inc. (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: 325-3566 Fax: ()-	Reporting Contact: Dan Forbes
Sampler(s) Name, Affiliation (Print): Aaron Weisofennis, CDM Smith	Billing Contact: Anarosa Jones
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 C2048416 ~~C203991~~

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	8270D 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	Sample Comments
	9209-MW5R				GW	18	X		X	X	X	X	X	X	X	X	-report results according
	9209-MW6				GW	18	X		X	X	X	X	X	X	X	X	to SWS guidelines
	9209-MW6d	4/26/12	1000	G	GW	4	X		X						X		-report 1" gr values
	9209-MW7	4/26/12	755	G	GW	4	X		X						X		-provide rdd
	9209-MW8				GW	18	X		X	X	X	X	X	X	X	X	
	9209-MW8d	4/26/12	1040	G	GW	4	X		X						X		~~S~~VOC for 29d
	9209-MW9				GW	18	X		X	X	X	X	X	X	X		only to include
	9209-MW10				GW	18	X		X	X	X	X	X	X	X		Bis(2-ethylhexyl)phthalate
	9209-MW10d	4/26/12	820	G	GW	4	X		X						X		
	9209-MW11				GW	18	X		X	X	X	X	X	X	X		
	9209-MW11d	4/26/12	740	G	GW	4	X		X						X		
	9209-MW22				GW	4	X		X						X		

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	4/26/12 1220	[signature]	4/26/12 1220
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
				[signature]	4/26/12 120

Cooler #'s & Temps on Receipt: C-517 1.3°C C-691 1.4°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)

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(919) 467-3090 Fax (919) 467-3515

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Client Name: CDM Smith, Inc. (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: 325-3566 Fax: () -	Reporting Contact: Dan Forbes
Sampler(s) Name, Affiliation (Print): Aaron Weisberning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature: [signature]	Site Location / Time Zone:

Requested Analyses: Nitrate Calc 353.2; 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: ~~C203991~~

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B					Sample Comments
	9209-MW5R				GW	18	X	X		X	X	X					see page 1
	9209-MW6				GW	18	X	X		X	X	X					C2048466
	9209-MW6d	4/26/12	1000	G	GW	4											
	9209-MW7	4/26/12	755	G	GW	4											
	9209-MW8				GW	18	X	X		X	X	X					
	9209-MW8d	4/26/12	1040	G	GW	4											
	9209-MW9				GW	18	X	X	X	X	X	X					
	9209-MW10				GW	18	X	X	X	X	X	X					
	9209-MW10d	4/26/12	820	G	GW	4											
	9209-MW11				GW	18	X	X	X	X	X	X					
	9209-MW11d	4/26/12	740	G	GW	4											
	9209-MW22				GW	4											

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 4/26/12 1220	Received By: [signature]	Date/Time: 4/26/12 1220
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: [signature]	Date/Time: 4/26/12 120
		Cooler #'s & Temps on Receipt: C-517 1.3°C C-691 1.4°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)

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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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Client Name: CDM Smith, Inc. (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: 325-3566 Fax: () -	Reporting Contact: Dan Forbes
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning	Billing Contact: Anarosa Jones
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: ~~C203991~~

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	8270D 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	Sample Comments
	9209-MW23	4/26/12	810	G	GW	4	X		X						X		See page 1
	9209-MW23d	4/25/12	1425	G	GW	4	X		X						X		C2048416
	9209-MW24	4/26/12	805	G	GW	4	X		X						X		
	9209-MW28	4/26/12	1205	G	GW	4	X		X						X		
	9209-MW28d	4/26/12	1210	G	GW	4	X		X						X		
	9209-MW29d	4/26/12	1155	G	GW	5	X	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		
						<-- Total # of Containers											

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	4/26/12 1220	[signature]	4/26/12 1220
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
				[signature]	4/26/12 1220

Cooler #'s & Temps on Receipt: C-517 1.3°C C-691 1.4°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)

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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 Smith, Inc. (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: 325-3566 Fax: ()-	Reporting Contact: Dan Forbes
Sampler(s) Name, Affiliation (Print): Aaron Weightman	Billing Contact: Anarosa Jones
Sampler(s) Signature: [signature]	Site Location / Time Zone:

Requested Analyses: Nitrate Calc 353.2; 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: ~~C203991~~

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-MW23	4/26/12	810	G	GW	4	See page 1
	9209-MW23d	4/25/12	1425	G	GW	4	C204846
	9209-MW24	4/26/12	805	G	GW	4	
	9209-MW28	4/26/12	1205	G	GW	4	
	9209-MW28d	4/26/12	1210	G	GW	4	
	9209-MW29d	4/26/12	1155	G	GW	5	
	9209-MW30				GW	4	
	9209-MW31				GW	4	
	9209-MW31d				GW	4	
	9209-MW32				GW	4	
	9209-TB1a				GW	4	
	9209-TB1ad				GW	4	
						<-- Total # of Containers	

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	4/26/12 1220	[signature]	4/26/12 1220
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
				[signature]	4/26/12 1220

Cooler #'s & Temps on Receipt: C-517 1.3°C C-691 1.4°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)

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(919) 467-3090 Fax (919) 467-3515

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Client Name: CDM Smith, Inc. (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: 325-3566 Fax: ()-	Reporting Contact: Dan Forbes
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning	Billing Contact: Anarosa Jones
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: C203991

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	8270D Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Ti,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	Sample Comments
	9209-MW33				GW	4	X		X						X		See page 1
	9209-MW34	4/26/12	1015	G	GW	4	X		X						X		C2048416
	9209-MW34d	4/25/12	1230	G	GW	4	X		X						X		
	9209-MW35				GW	4	X		X						X		
	9209-MW36				GW	18	X		X	X	X	X	X	X	X		
	9209-MW36d	4/26/12	850	G	GW	4	X		X						X		
	9209-DUP	4/26/12	700	G	GW	4	X		X						X		
	9209-EQBlank	4/25/12	1700	G	WA	4	X		X						X		
	9209-TripBlank				WA	2	X										

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time 4/26/12 1220	Received By	Date/Time 4/26/12 1220
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time 4/26/12 120
		Cooler #'s & Temps on Receipt: C-517 1.3°C C-691 1.4°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)

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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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Client Name: CDM Smith, Inc. (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: 325-3566 Fax: () -	Reporting Contact: Dan Forbes
Sampler(s) Name, Affiliation (Print): Aaron Weisperning	Billing Contact: Anarosa Jones
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: ~~C203991~~

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	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B					Sample Comments
	9209-MW33				GW	4											See page 1
	9209-MW34	4/26/12	1015	G	GW	4											C204846
	9209-MW34d	4/25/12	1230	G	GW	4											
	9209-MW35				GW	4											
	9209-MW36				GW	18	X	X	X	X	X	X					
	9209-MW36d	4/26/12	850	G	GW	4											
	9209-DUP	4/26/12	700	G	GW	4											
	9209-EQBlank	4/25/12	1700	G	WA	4											
	9209-TripBlank				WA	2											

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 4/26/12 1220	Received By: [signature]	Date/Time: 4/26/12 1220
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: [signature]	Date/Time: 4/26/12 120
		Cooler #'s & Temps on Receipt: C-517 1.3°C C-691 1.4°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

Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

May 10, 2012

Chuck Smith
Environmental Conservation Labs, Inc.
102A Woodwinds Industrial Ct.
Cary, NC 27511

RE: **C203991**

Microseeps Workorder: 5093

Dear Chuck Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, April 27, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Julianne C. Sproull

Julianne Sproull 05/10/2012
jsproull@microseeps com

Enclosures

As a valued client we would appreciate your comments on our service
Please email info@microseeps com

Total Number of Pages 8

CERTIFICATE OF ANALYSIS

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	NELAP: State of Florida, Department of Health, Bureau of Laboratories
Accreditation ID:	E87832
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: State of Louisiana, Department of Environmental Quality
Accreditation ID:	04104
Scope:	Solid and Chemical Materials; Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 5093 C203991

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50930001	9209-MW5R	Bubble Strip	4/24/2012 16:00	4/27/2012 13:00
50930002	9209-MW6	Bubble Strip	4/24/2012 17:10	4/27/2012 13:00
50930003	9209-MW8	Bubble Strip	4/24/2012 12:40	4/27/2012 13:00

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ANALYTICAL RESULTS

Workorder: 5093 C203991

Lab ID: **50930001** Date Received: 4/27/2012 13:00 Matrix: Bubble Strip
Sample ID: **9209-MW5R** Date Collected: 4/24/2012 16:00

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Hydrogen	2.4	nM	0 60	0 25	1			5/4/2012 15:26	GT	

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ANALYTICAL RESULTS

Workorder: 5093 C203991

Lab ID: **50930002** Date Received: 4/27/2012 13:00 Matrix: Bubble Strip

Sample ID: **9209-MW6** Date Collected: 4/24/2012 17:10

Parameters	Results	Units	RDL	MDL	DF Prepared	By	Analyzed	By	Qual
RISK - MICR									
Analysis Desc: AM20GAX			Analytical Method: AM20GAX						
Hydrogen	**2.6**	nM	0 60	0 25	1		5/4/2012 15:39	GT	

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ANALYTICAL RESULTS

Workorder: 5093 C203991

Lab ID: **50930003** Date Received: 4/27/2012 13:00 Matrix: Bubble Strip
Sample ID: **9209-MW8** Date Collected: 4/24/2012 12:40

Parameters	Results	Units	RDL	MDL	DF Prepared	By	Analyzed	By	Qual
RISK - MICR									
Analysis Desc: AM20GAX			Analytical Method: AM20GAX						
Hydrogen	**2.0**	nM	0 60	0 25	1		5/4/2012 15:51	GT	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 5093 C203991

PARAMETER QUALIFIERS

U	Indicates the compound was analyzed for, but not detected.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (RDL).

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5093

SUBCONTRACT ORDER

ENCO Cary

C203991

SENDING LABORATORY:

ENCO Cary
102-A Woodwinds Industrial Court
Cary, NC 27511
Phone: 919.467.3090
Fax: 919.467.3515
Project Manager: Chuck Smith

RECEIVING LABORATORY:

Microseeps, Inc
220 William Pitt Way
Pittsburg, PA 15238
Phone :(412) 826-5245
Fax: (999) 999-9999
Project State of Origin: North Carolina

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
1	9209-MW5R	Ground Water	24-Apr-12 16:00	

Analysis	Due	Expires	Analysis Comments
Hydrogen	09-May-12 15:00	01-May-12 16:00	
Containers Supplied			
Vial (S)			

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
2	9209-MW6	Ground Water	24-Apr-12 17:10	

Analysis	Due	Expires	Analysis Comments
Hydrogen	09-May-12 15:00	01-May-12 17:10	
Containers Supplied			
Vial (S)			

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
3	9209-MW8	Ground Water	24-Apr-12 12:40	

Analysis	Due	Expires	Analysis Comments
Hydrogen	09-May-12 15:00	01-May-12 12:40	
Containers Supplied			
Vial (S)			

Released By	Date	Received By	Date
JMEstampon	4/25/12	HLawton MS	4/27/12 1300

Appendix B

MW-5R
April 2012 Sampling Event

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

* reductive dechlorination

Score: 6

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points 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	○	◉	0
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	◉	○	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

End of Form

MW-6
April 2012 Sampling Event

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

* reductive dechlorination

Score: 20

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points 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	○	◉	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	◉	○	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

End of Form

MW-8
April 2012 Sampling Event

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

* reductive dechlorination

Score: 18

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points 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	○	◉	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	◉	○	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	○	◉	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	◉	○	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

End of Form

MW-9
April 2012 Sampling Event

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

* reductive dechlorination

Score: 24

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points 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	○	◉	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	◉	○	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	◉	○	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

End of Form

MW-10
April 2012 Sampling Event

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

* reductive dechlorination

Score: 21

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points 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	○	◉	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	◉	○	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	◉	○	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/]	◉	○	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

End of Form

MW-11
April 2012 Sampling Event

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

* reductive dechlorination

Score: 3

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points 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	◉	○	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	○	◉	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

End of Form

MW-36
April 2012 Sampling Event

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

* reductive dechlorination

Score: 12

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points 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	○	◉	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	◉	○	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/]	○	◉	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).

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