Wake County,
North Carolina

North Wake Unlined Landfill Semi-Annual Sampling Report (May 2010 Sampling Event)

June 2010

Report

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

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

Consultant - Camp Dresser & McKee

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

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

E-mail: colonemf@cdm.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Wake County North Wake Closed Landfill	9004 Deponie Drive Raleigh, NC 27615	92-09	.1600	May 11-13, 2010

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

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

Mathew F Colone — Digitally signed by Mathew F Colone DN: cn=Mathew F Colone, o=CDM, ou, email=colonemf@cdm.com, c=US Date: 2010.06.30 16:01:19 -04'00' — 6/30/10

Signature — Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA PROFESSIONAL SEAL 1851 GEOLOGIST MATTHEW F. COLONE

6/30/2010

Revised 01/2007

CDM

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June 30, 2010

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

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

Dear Ms. Drummond:

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

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

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

All groundwater samples were analyzed for Appendix II Volatile Organic Compounds (VOCs) and metals. In addition, samples from monitoring wells MW-5R, -6, -8, -9, -10, -11, and -36 were analyzed for natural attenuation parameters. Select wells were also sampled for Semi-Volatile

Organic Compounds (bis 2-ethylhexyl phthalate only), pesticides, and herbicides. These analyses are only done during the spring sampling event. Sampling results plus the statistical analysis for all wells and surface water locations are discussed below.

Field Activities

Groundwater and surface water samples from the North Wake Unlined Landfill were collected from May 11-13, 2010. Groundwater samples were collected by use of a peristaltic pump or disposable, laboratory decontaminated Teflon™ bailers. Groundwater elevations were measured at each well prior to sampling and are presented in **Table 1**. These groundwater elevations were used to construct potentiometric contours for this sampling event and are presented on **Figure 1**. The groundwater elevations and potentiometric contours were used to estimate groundwater velocities at each well. Groundwater velocity values are presented in **Table 2**. After depth to groundwater was determined, three well volumes of water were removed from each well prior to sampling to provide fresh formation water within the well water column. Each well volume and surface water sample was measured in the field for pH, conductivity, temperature, turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP). The field parameters at the time of sampling are presented in **Table 1**.

Sampling Results

All groundwater and surface water samples were analyzed by ENCO Laboratories, Inc. in Cary, North Carolina for the North Carolina Appendix I plus detected Appendix II VOCs and metals. Select wells (MW-5R, -6, -8, -9, -10, -11, and -36) were sampled for monitored natural attenuation (MNA) parameters biochemical oxygen demand, chemical oxygen demand, alkalinity, nitrate, chloride, sulfate, sulfide, total organic carbon, carbon dioxide, methane, ethane, ethene, ferrous iron, volatile fatty acids, dissolved oxygen (DO), and oxidation/reduction potential (ORP) in addition to the Appendix II constituents. Wells MW-5R, MW-6, and MW-8 were also analyzed for dissolved hydrogen. Other wells were analyzed for SVOCs, herbicides, and pesticides as outlined in the sampling results summary.

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

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

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

MW-11 (Shallow Background)

Metals:	Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	None Detected

MW-11d (Deep Background)

Metals:	Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	None Detected

MW-5R

Metals:	None Detected
Volatile Organic Compounds:	p-Dichlorobenzene
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	None Detected

MW-6

Metals:	Barium, Cadmium, Cobalt
Volatile Organic Compounds:	Benzene, p-Dichlorobenzene, Vinyl Chloride
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	Not Tested

MW-6d

Metals:	Zinc
Volatile Organic Compounds:	1,1-Dichloroethane
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-7

Metals:	Cobalt, Copper, Zinc
Volatile Organic Compounds:	Benzene, p-Dichlorobenzene, Vinyl Chloride
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	Not Tested

MW-8

Metals:	None Detected
Volatile Organic Compounds:	cis-1,2-Dichloroethene
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-8d

Metals:	Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-9

Metals:	Barium, Zinc
Volatile Organic Compounds:	p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethane, 1,2-Dichloropropane, Ethylbenzene, Vinyl Chloride
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	None Detected

MW-10

Metals:	Zinc
Volatile Organic Compounds:	cis-1,2-Dichloroethene, Vinyl Chloride
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	Not Tested

MW-10d

Metals:	Chromium
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	Not Tested

MW-22

Metals:	Cadmium, Cobalt, Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	None Detected

MW-23

Metals:	Barium, Chromium, Copper, Lead, Vanadium, Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	Not Tested

MW-23d

Metals:	Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	Not Tested

MW-24

Metals:	Lead, Zinc
Volatile Organic Compounds:	Chloroform
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	Not Tested

MW-28

Metals:	Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	None Detected

MW-28d

Metals:	None Detected
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	Not Tested

MW-29d

Metals:	Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	None Detected

MW-30

Metals:	Barium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Vanadium, Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	None Detected

MW-31

Metals:	Chromium, Copper, Vanadium, Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	None Detected

MW-31d

Metals:	Zinc
Volatile Organic Compounds:	Chloroform
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	Not Tested

MW-32

Metals:	Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

TB-1a

Metals:	Cadmium, Copper, Mercury, Vanadium, Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	None Detected

TB-1a deep

Metals:	Chromium, Zinc
Volatile Organic Compounds:	Chloroform
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-33

Metals:	Barium, Chromium, Cobalt, Copper, Vanadium, Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	None Detected

MW-34

Metals:	Barium, Beryllium, Chromium, Cobalt, Copper, Lead, Mercury, Vanadium, Zinc
Volatile Organic Compounds:	p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Methylene Chloride, Tetrachloroethene, Trichloroethene
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-34d

Metals:	Copper, Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	Not Tested

MW-35

Metals:	Barium, Chromium, Copper, Vanadium, Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-36

Metals:	Chromium, Copper, Zinc
Volatile Organic Compounds:	p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Trichloroethene
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	None Detected

MW-36d

Metals:	Barium, Chromium, Copper, Vanadium, Zinc
Volatile Organic Compounds:	1,1-Dichloroethane, Tetrachloroethene, Trichloroethene
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	None Detected

SW-2

Metals:	None Detected
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

SW-3

Metals:	None Detected
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

SW-7

Metals:	None Detected
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

SW-8

Metals:	None Detected
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

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

Antimony:	MW-23D
Thallium:	MW-23, MW-30
Vanadium:	MW-6D, MW-7, MW-8D, MW-11D, MW-23D, MW-24, MW-28, MW-31D, MW-32, MW-36, TB-1A D
1,2-Dichloroethane:	MW-9
Tetrachloroethene:	MW-6D, MW-10, MW-36
Vinyl Chloride:	MW-8, MW-36

The equipment blank had "J" flag detections of acetone and toluene. No compounds were detected in the trip blank.

The duplicate sample, Dup, was collected from MW-36D and had similar concentrations to the MW-36D samples. A complete summary of all detected constituents, including detections above the MDL, is presented in **Table 3**. Laboratory results are provided in electronic format at the end of this report.

Statistical Analysis

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

For the May 2010 sampling event, the following constituents were found to be statistically significant: p-dichlorobenzene in MW-5R; cobalt and benzene in MW-6; 1,1-dichloroethane in MW-6d; cobalt in MW-7; cis-1,2-dichloroethene in MW-8; p-dichlorobenzene, cis-1,2-dichloroethene, 1,1-dichloroethane, ethlybenzene, and vinyl chloride in MW-9; cis-1,2-dichloroethene in MW-10; cadmium and cobalt in MW-22; chloroform in MW-24; chromium in MW-30 and MW-31; chloroform in MW-31d; cadmium in TB-1a; chromium and chloroform in TB-1a deep; chromium in MW-33; p-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, tetrachloroethene, and trichloroethene in MW-34; p-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, and trichloroethene in MW-36; and chromium, copper, vanadium, 1,1-dichloroethane, tetrachloroethene, and trichloroethene in MW-36D.

This was the first time a statistical analysis was performed on constituents detected in groundwater samples from monitoring wells MW-36 and MW-36d as this was the fourth sampling event.

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

Monitored Natural Attenuation

Additional groundwater samples were collected from MW-5R, -6, -8, -9, -10, -11, and -36 for evaluation of monitored natural attenuation as part of the corrective action program as required

by Solid Waste Section guidelines. These parameters include biological oxygen demand, chemical oxygen demand, alkalinity, nitrate, chloride, sulfate, sulfide, total organic carbon, carbon dioxide, methane, ethane, ethene, ferrous iron, volatile fatty acids, dissolved hydrogen, and field measurements of pH, temperature, conductivity, ORP and DO. Groundwater samples from these wells have now been analyzed for geochemical constituents for four consecutive sampling events. Results are presented in **Table 5**. The laboratory data for the additional parameters is included in the electronic format data.

BIOCHLOR, an Environmental Protection Agency approved screening model used to evaluate remediation by natural attenuation of dissolved solvents, was used to determine if biodegradation is occurring at these wells. Based on the screening results from the May 2010 data, there is limited to strong evidence that anaerobic biodegradation is occurring. BIOCHLOR screening results for each well are provided in Appendix B. MW-11 (background) and MW-5R scored the lowest mainly due to limited VOC detections.

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

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

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

CDM

Recommendations

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

The County has evaluated the detections in MW-36 and MW-36d and proposed a corrective action to remediate groundwater in this area. The Selected Remedy of monitored natural attenuation paired with in situ remediation by air sparging was approved by the Solid Waste Section in December 2009. The pilot test is set begin in July 2010 near MW-6. Pending favorable results of the pilot test, the full-scale remediation will likely begin during the fall of 2010.

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

Very truly yours,

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

cc: Elliott Cornell, P.G., WCSWM

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

	Field Measurements						Groundwater Elevations		
Monitoring Well I.D.	pH (-)	Conductivity (µS)	Temperature (deg. C)	Turbidity (NTU)	DO (mg/L)	ORP (-)	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-5R	6.42	460	15.6	4	1.82	76.2	225.28	15.49	209.79
MW-6	6.24	1,759	15.9	3	1.87	91.2	219.80	12.77	207.03
MW-6d	6.28	220	16.9	30	1.38	80.1	218.61	13.04	205.57
MW-7	6.19	689	14.9	102	2.64	95.0	234.15	11.73	222.42
MW-8	6.14	169	16.4	2	1.09	88.2	226.38	10.03	216.35
MW-8d	6.43	159	16.8	17	2.09	94.3	226.16	11.36	214.80
MW-9	6.19	613	17.6	79	2.20	37.6	242.69	30.16	212.53
MW-10	5.74	247	16.8	10	2.21	80.2	274.76	42.47	232.29
MW-10d	6.28	167	19.0	60	5.71	96.8	274.54	46.28	228.26
MW-11	5.85	81	16.4	89	5.46	154.2	343.63	42.76	300.87
MW-11d	6.05	94	16.7	7	4.92	134.6	343.27	42.98	300.29
MW-22	6.24	137	16.0	39	4.52	111.0	254.62	34.22	220.40
MW-23	6.03	60	16.0	633	9.02	123.1	274.83	44.09	230.74
MW-23d	6.00	142	16.1	1	4.72	122.8	274.89	44.42	230.47
MW-24	6.16	72	16.6	417	6.71	92.9	266.64	44.27	222.37
MW-27	ABANDONED						ABANDONED		
MW-28	6.23	183	16.4	117	7.44	123.3	237.89	17.55	220.34
MW-28d	6.51	195	17.0	22	4.11	113.9	238.44	17.46	220.98
MW-29d	6.01	119	16.1	9	6.48	129.6	275.06	40.77	234.29
MW-30	6.06	114	15.7	871	5.22	130.9	282.32	49.78	232.54
MW-31	5.85	151	17.2	211	5.43	148.1	261.67	31.20	230.47
MW-31d	6.18	152	17.3	51	2.86	133.2	260.92	30.72	230.20
MW-32	5.65	75	14.2	91	3.33	128.7	242.99	16.37	226.62
TB-1a	5.92	173	16.2	218	2.81	46.0	255.05	27.29	227.76
TB-1a deep	6.06	170	16.3	58	1.47	63.3	256.01	29.37	226.64
MW-33	5.96	124	14.0	178	2.97	138.2	222.01	11.84	210.17
MW-34	5.51	99	14.0	742	3.26	119.7	221.96	13.77	208.19
MW-34d	5.89	174	15.0	2	1.88	102.1	222.16	14.09	208.07
MW-35	5.37	33	14.1	274	4.42	152.5	223.48	16.98	206.50
MW-36	5.87	187	15.6	202	1.51	160.9	237.40	26.76	210.64
MW-36d	6.25	293	16.2	17	1.43	77.8	237.68	26.98	210.70
SW-2	7.14	112	17.6	22	7.80	98.8			
SW-3	6.48	117	15.3	3	8.01	113.8			
SW-7	7.22	112	18.2	2	8.02	89.9			
SW-8	6.84	96	15.9	8	8.04	120.1			

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, and -35 sampled yearly during the spring event
(7) Turbidity readings were recorded at the time samples were collected

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

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

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

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

	Sampling Date:		5/15-21/2008		11/5-08/2008		3/10-13/2009		12/02-04/2009		5/11-13/2010	
Monitoring Well Designation	Hydraulic Conductivity ft/day (cm/s)	Effective Porosity	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)
MW-5R	0.33 1.16E-04	0.18	0.0230	4.21E-02	0.0234	4.29E-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	0.0207	1.68E+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	0.0256	1.64E-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	0.0246	4.93E-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	0.0201	8.18E-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	0.0170	1.73E-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	0.0216	9.39E-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	0.0183	7.11E-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	0.0248	2.81E-02	0.0245	2.78E-02	0.0247	2.80E-02	0.0248	2.81E-02
MW-36	17.56 6.19E-03	0.30					0.0194	1.14E+00	0.0194	1.14E+00	0.0198	1.16E+00
MW-36D	0.78 2.75E-04	0.10					0.0193	1.50E-01	0.0193	1.51E-01	0.0196	1.53E-01

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

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-11	15-Apr-94			221				23	54	14							**50**	88
MW-11	11-May-94			146				19	55	14							**50**	83
MW-11	10-Jun-94			191				27	111	7.6		20					**90**	114
MW-11	3-Oct-94			143			**16**	26	74	8							**60**	85
MW-11	13-Jun-95																	
MW-11	28-Sep-95		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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-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

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-5	6-Mar-94			76														110
MW-5	15-Apr-94			60		0.9								**62**				47
MW-5	11-May-94			58		0.5			11									28
MW-5	31-May-94			66				11				17						63
MW-5	10-Jun-94			54						2.5								20
MW-5	30-Sep-94			48										7.3				10
MW-5	13-Jun-95																	
MW-5	28-Sep-95		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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
MW-5	22-Apr-97		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
MW-5	6-May-98		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

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-6	6-Mar-94			190			**32**	10	33	**18**		33					**63**	51
MW-6	15-Apr-94			144			**20**	12	20	11				7.3			**50**	27
MW-6	11-May-94			175			**30**	13	33	9.3				7.3			**70**	35
MW-6	1-Jun-94			260	**5.4**		**49**	16	28	14		13					**100**	72
MW-6	25-Aug-94			68										7.3				
MW-6	29-Sep-94			110			**19**		19	6.9				7.3			**40**	16
MW-6	13-Jun-95				2		**22**				**2.6**						**41**	
MW-6	28-Sep-95		NS	NS	NS	NS	NS	NS	NS	NS	0.5	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-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

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-7	6-Mar-94			190			**48**	17	110	**22**		21					**67**	82
MW-7	15-Apr-94			136			**30**	11	53	**25**		20					**40**	56
MW-7	11-May-94			51			**30**	11	24	6.8							**40**	29
MW-7	31-May-94			350	**5.4**		**89**	30	180	**34**		40					**140**	150
MW-7	25-Aug-94			44					25	2.7								19
MW-7	29-Sep-94			49			**15**		26	4.7							**20**	20
MW-7	13-Jun-95																	
MW-7	28-Sep-95		NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS			NS	NS
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

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-8	6-Mar-94			120			**17**		26			13					**35**	49
MW-8	15-Apr-94			97					22	4.2		20					**30**	35
MW-8	11-May-94			89					20	4.3							**20**	26
MW-8	31-May-94			330	**5.4**		**81**	34	90	**16**		39					**150**	150
MW-8	25-Aug-94			76					13	2.7								21
MW-8	30-Sep-94			82			**20**		14	5.4							**20**	19
MW-8	13-Jun-95						**38**	11									**87**	
MW-8	28-Sep-95		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS
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
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-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

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-9	6-Mar-94			210														
MW-9	15-Apr-94			199				11										
MW-9	11-May-94			193				10		2.7								14
MW-9	31-May-94			270			**24**	14	25	21							**23**	120
MW-9	25-Aug-94			135														14
MW-9	29-Sep-94			123						4.2								12
MW-9	13-Jun-95							14										
MW-9	28-Sep-95		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-10	31-Oct-95																	
MW-10	30-Jan-96																	
MW-10	28-Nov-96			71				14										
MW-10	22-Apr-97						**31**	23									**43**	98
MW-10	1-Nov-97		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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-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

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-22	9-Jun-97					**2.9**		**130**				66						
MW-22	18-Aug-97		**11.9**			**4.4**		**229**		14.3		**164**						68.6
MW-22	2-Nov-97					1.5		**210**		12		**130**						230
MW-22	6-May-98							**110**				51						80
MW-22	18-Aug-98					**9.6**		**110**										210
MW-22	10-Sep-98							**100**										
MW-22	6-Oct-98							**99**										
MW-22	8-Dec-98					1.9		**130**										
MW-22	11-Jan-99					1.5		**202**				55						
MW-22	8-Feb-99					**2**		**168**										
MW-22	16-Apr-99					**4.1**	**10.1**	**261**		**21**		70.9						
MW-22	2-Dec-99					**7.4**		**160**										
MW-22	12-Apr-00					**6.1**		**98.1**										
MW-22	20-Dec-00					**2.4**		60.7										
MW-22	17-Apr-01					1.2		31.4										
MW-22	5-Dec-01							26.9										
MW-22	9-Apr-02					**2.1**		63.5										
MW-22	6-Nov-02					1.2		26.5										
MW-22	17-Apr-03																	
MW-22	5-Nov-03					1.19	**11.1**	30.1		12.9								
MW-22	26-Apr-04																	
MW-22	18-Nov-04					**3**		15										
MW-22	22-Apr-05				3	**3**	**17**	48		**62**								196
MW-22	11-Nov-05					**2**		13										
MW-22	14-Apr-06					**2**		12										
MW-22	10-Nov-06					**2**		15										
MW-22	20-Apr-07					**2**												20
MW-22	8-Nov-07					**2.8**		24		13								32
MW-22	15-May-08			45J		**4.66**	8.9J	25.1	7.09J	10.3		16.2J	7.95J	5.69J		**7.37**	1.3J	16.3
MW-22	6-Nov-08		4.58J	75.5JB	2.45B	**6.68**	9.28JB	44.9	9.38JB	**15.4B**		27.5J	10.5	10.6B			**20.7JB**	32.6
MW-22	12-Mar-09			21.5J		**10.3**	2.39J	26.9	1.92JB	4.02J		11.6J		1.79J		**6.65**	**35.1B**	10.3
MW-22	4-Dec-09			44.9JB		**4.05**	4.97JB	22.1	8.74JB			10.4J	3.05J	3.24JB			**5.22JB**	9.59JB
MW-22	12-May-10			30.5J		**2.23**		19.2				5.88J						21.5

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-23	9-Jun-97																	
MW-23	18-Aug-97		**10.3**			**2.3**		14.2		**18.8**		59.1						
MW-23	2-Nov-97			600	**4.7**	**2.6**	**54**	35		**56**		**110**					**170**	260
MW-23	5-May-98																	
MW-23	18-Aug-98					**5.4**	**24**	10		**17**							**50**	150
MW-23	10-Sep-98																	
MW-23	6-Oct-98					1.6					0.26							
MW-23	8-Dec-98					1.7												
MW-23 (dup)	8-Dec-98					**2.3**												
MW-23	11-Jan-99										0.20							
MW-23	8-Feb-99										0.20							
MW-23	16-Apr-99						**11.2**			**23.8**	0.7							
MW-23	2-Dec-99										0.2							
MW-23 (dup)	2-Dec-99																	
MW-23	12-Apr-00										**1.1**							
MW-23	20-Dec-00																	
MW-23	17-Apr-01																	
MW-23	4-Dec-01																	
MW-23	11-Apr-02																	
MW-23	6-Nov-02																	
MW-23	17-Apr-03																	
MW-23 (dup)	17-Apr-03																	
MW-23	5-Nov-03																	
MW-23	26-Apr-04																	
MW-23	18-Nov-04																	
MW-23	21-Apr-05																	
MW-23	11-Nov-05																	
MW-23	14-Apr-06																	
MW-23	9-Nov-06						**13**		39									133
MW-23	20-Apr-07			133	2		**10**	23	29								**28**	102
MW-23	8-Nov-07			123	1			21	21								**27**	92
MW-23	15-May-08		3.35J	90.7J	6.57		**18.8**	4.50J	32.7	11.7		10.3J		4.56J			**30**	49.2
MW-23	6-Nov-08		4.07J	65.4JB	1.96B		**10.6B**		18.3B	13.2B		8.28J		8.41JB			**17.5JB**	15.9
MW-23	12-Mar-09			62.1J	2.99		**11.9**	3.31J	22.1B	13		7.02J					**36.7B**	35
MW-23	4-Dec-09			48.6JB			4.33JB		12.2B					3.02JB			**3.57JB**	6.88JB
MW-23	13-May-10			124			**23.8**	9.69J	45.6	**23.6**		12.8J				**0.348J**	**52**	81.7

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-23d	5-May-98																	80
MW-23d	18-Aug-98					**4**												63
MW-23d	10-Sep-98					1.6				11								
MW-23d	6-Oct-98					**2.0**					0.22							60
MW-23d	8-Dec-98					1.8												83
MW-23d	11-Jan-99																	
MW-23d	8-Feb-99																	
MW-23d	16-Apr-99																	
MW-23d	2-Dec-99																	
MW-23d	12-Apr-00																	
MW-23d	20-Dec-00										0.8							
MW-23d	17-Apr-01																	
MW-23d	4-Dec-01																	
MW-23d	11-Apr-02																	
MW-23d	6-Nov-02																	
MW-23d	17-Apr-03																	
MW-23d	5-Nov-03																	
MW-23d	26-Apr-04																	
MW-23d	18-Nov-04																	
MW-23d	21-Apr-05					**2**				12								55
MW-23d	11-Nov-05					1												
MW-23d	14-Apr-06																	
MW-23d	9-Nov-06																	
MW-23d	20-Apr-07																	
MW-23d	8-Nov-07																	10
MW-23d	15-May-08			36.5J			5.10J		3.39J					3.39J				
MW-23d	6-Nov-08			48.8JB	**7.34B**		6.57JB		5.63JB	6.76JB				8.81JB			**8.38JB**	4.77J
MW-23d	12-Mar-09			24.4J			1.71J		3.23JB								**9.35JB**	12.6
MW-23d	4-Dec-09			50.1JB		0.17J	4.98JB		8.53JB	10.7B				2.77JB			**7.17JB**	11.2B
MW-23d	13-May-10	**2.10J**		41.6J		0.593J	5.43J		3.27J	2.06J							**7.12J**	39.3

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-24	9-Jun-97																	
MW-24	18-Aug-97					1.7		11.2										52.8
MW-24	1-Nov-97																	66
MW-24 (dup)	1-Nov-97									12	0.25							91
MW-24	5-May-98																	
MW-24	18-Aug-98					**4.7**				**16**								180
MW-24 (dup)	18-Aug-98		**11**		2.1	**8.9**	12	11		**22**								290
MW-24	10-Sep-98										0.44							
MW-24	6-Oct-98										0.98							
MW-24	8-Dec-98										0.62							
MW-24	8-Dec-98										0.62							
MW-24	11-Jan-99										0.50							
MW-24	16-Apr-99									13.7	0.4							53.1
MW-24	2-Dec-99																	
MW-24	12-Apr-00										0.3							
MW-24	20-Dec-00																	
MW-24	16-Apr-01										0.3							
MW-24 (dup)	16-Apr-01																	
MW-24	3-Dec-01																	
MW-24	12-Apr-02																	
MW-24	5-Nov-02																	
MW-24	17-Apr-03										0.4							
MW-24	4-Nov-03																	
MW-24	14-Apr-04																	
MW-24	18-Nov-04										**1.2**							68
MW-24	21-Apr-05										0.65							
MW-24	11-Nov-05				**5**		11			**52**	**2**							539
MW-24	14-Apr-06				3	**2**				**41**	**1.2**							492
MW-24	9-Nov-06				**4**		10			**48**	**1.7**							464
MW-24	19-Apr-07				1					14	0.68							112
MW-24	9-Nov-07				3.3		10		15	**31**	0.98							305
MW-24	20-May-08			42.4J	3.85		3.47J		7.58J	7.16J	0.046J						**4.83J**	27.4
MW-24	11-Nov-08		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-27	4-May-98																	
MW-27	7-Dec-98					1	21											
MW-27	29-Apr-99					**2.3**		19										
MW-27	3-Dec-99							13.2										
MW-27	12-Apr-00					1.7		14.5			0.5							75.6
MW-27	18-Apr-01																	
MW-27	12-Apr-02					1.7		10.5										51.8
MW-27	17-Apr-03																	
MW-27	26-Apr-04																	
MW-27	22-Apr-05				3	1	11										**57**	216
MW-27	11-Nov-05																	
MW-27	14-Apr-06																	
MW-28	1-May-98																	
MW-28	17-Aug-98					**5.6**												
MW-28	9-Sep-98																	
MW-28	7-Oct-98					**8.8**	43	24									**80**	150
MW-28	9-Dec-98					**8.9**	39	19									**68**	140
MW-28	12-Jan-99																	
MW-28	9-Feb-99																	
MW-28	19-Apr-99																	
MW-28	3-Dec-99																	
MW-28	12-Apr-00																	
MW-28	18-Apr-01																	
MW-28	12-Apr-02																	
MW-28	17-Apr-03																	
MW-28	26-Apr-04																	
MW-28	22-Apr-05				2		33	13		**17**							**67**	331
MW-28	13-Apr-06						12											66
MW-28	20-Apr-07						11											88
MW-28	19-May-08			75.8J	**4.29**		16.9	3.18J	6.12J	4.16J							**25.1**	39.9
MW-28	12-Mar-09			22.8J			4.87J							0.89J			**10.1JB**	13
MW-28	13-May-10			35.6J			6.55J	1.35J									**7.87J**	17.6
MW-28d	1-May-98																	
MW-28d	17-Aug-98					1.3												
MW-28d	9-Sep-98																	
MW-28d	7-Oct-98																	
MW-28d	9-Dec-98										0.25							
MW-28d	12-Jan-99																	
MW-28d (dup)	12-Jan-99																	
MW-28d	9-Feb-99																	
MW-28d	19-Apr-99																	
MW-28d	3-Dec-99																	
MW-28d	12-Apr-00																	
MW-28d	18-Apr-01																	
MW-28d	12-Apr-02																	
MW-28d	17-Apr-03																	
MW-28d	26-Apr-04																	
MW-28d	22-Apr-05																	
MW-28d	13-Apr-06																	
MW-28d	20-Apr-07																	35
MW-28d	19-May-08				**7.76**		1.53J		5J	3.8J							1.52J	
MW-28d	12-Mar-09						2.99J		2.04JB	6.28J							**12.7JB**	8.95J
MW-28d	13-May-10			7.52J			2.21J										3.05J	8.79J

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-29d	4-May-98						**13**											
MW-29d	17-Aug-98																	
MW-29d	9-Sep-98					1	**17**											
MW-29d (dup)	9-Sep-98						**11**											
MW-29d	7-Oct-98					**2.7**	**18**											53
MW-29d	9-Dec-98										0.24							
MW-29d	12-Jan-99																	
MW-29d	9-Feb-99																	
MW-29d	19-Apr-99																	
MW-29d	3-Dec-99																	
MW-29d	12-Apr-00																	
MW-29d	19-Dec-00																	
MW-29d	18-Apr-01																	
MW-29d	4-Dec-01																	
MW-29d	11-Apr-02																	
MW-29d	6-Nov-02																	
MW-29d	18-Apr-03																	
MW-29d	5-Nov-03																	
MW-29d	26-Apr-04																	
MW-29d	18-Nov-04					**2**												
MW-29d	22-Apr-05																	
MW-29d	11-Nov-05																	
MW-29d	14-Apr-06																	
MW-29d	10-Nov-06																	
MW-29d	20-Apr-07								16									56
MW-29d	9-Nov-07																	24
MW-29d	19-May-08			33.8J	**6.72**		4.31J		5.61J									4.02J
MW-29d	7-Nov-08			49.8JB	**10.7B**		8.58JB	3.47J	12.1B	5.59JB				8.05JB			**12.1JB**	10.5
MW-29d	10-Mar-09						**11.8**		5.96J	6.80J				1.97JB		6.41	**7.77J**	8.23J
MW-29d	2-Dec-09			37.1J			4.39J		12.6B			2.68J					**5.01JB**	4.93JB
MW-29d	13-May-10			38.5J			4.33J		2.61J								3.10J	23
MW-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

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-31	1-May-98																	
MW-31	17-Aug-98					**14**	**88**			**38**		82					**81**	220
MW-31	9-Sep-98					**3.3**	**42**			**15**								530
MW-31	7-Oct-98					1.8	**10**											
MW-31	8-Dec-98					**2.6**	**24**											
MW-31	11-Jan-99																	
MW-31	8-Feb-99																	
MW-31	19-Apr-99																	
MW-31	3-Dec-99																	
MW-31	13-Apr-00																	
MW-31	19-Dec-00																	
MW-31	17-Apr-01						**16.5**											
MW-31	6-Dec-01						**55**											
MW-31	11-Apr-02																	
MW-31	6-Nov-02																	
MW-31	18-Apr-03																	
MW-31	5-Nov-03																	
MW-31	28-Apr-04																	
MW-31	18-Nov-04						**64**	32		14							**120**	64
MW-31	21-Apr-05																	
MW-31	11-Nov-05						**17**											
MW-31	14-Apr-06																	
MW-31	9-Nov-06						**15**											
MW-31	20-Apr-07																	
MW-31	9-Nov-07				1		**38**		19	**22**	0.22						**47**	32
MW-31	19-May-08			50.7J			**18.1**		13.6	8.81J		6.67J		4.33J		**7.52**	**16.9J**	13
MW-31	7-Nov-08			66.6JB			**30.0B**		23.3B	**15.3B**		7.34J		8.57JB			**40.3B**	12.1
MW-31	11-Mar-09			85.6JB	1.34		**30.2B**	6.48JB	21.7B	**19.2B**		11J		6.54JB			**36.4B**	11.1
MW-31	4-Dec-09			38.4JB			**13.4B**		14.5B	11.3B		5.52J	4.62J	2.91JB			**11.8JB**	10.2B
MW-31	12-May-10		3.31J	70.9J	0.182J		**32.4**	2.22J	17.1	9.41J		4.63J					**33.5**	27.1
MW-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

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-32	1-May-98						**23**	44									**41**	59
MW-32	17-Aug-98					**5.5**	**10**	31										130
MW-32	9-Sep-98					**5.4**	**34**	45				54					**60**	240
MW-32	6-Oct-98		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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
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

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
TB-1a deep	8-Jun-01																	
TB-1a deep	6-Dec-01																	
TB-1a deep	11-Apr-02																	
TB-1a deep	6-Nov-02																	
TB-1a deep	18-Apr-03																	
TB-1a deep	4-Nov-03																	
TB-1a deep	28-Apr-04																	
TB-1a deep	18-Nov-04																	
TB-1a deep	21-Apr-05																	
TB-1a deep	11-Nov-05																	
TB-1a deep	14-Apr-06																	
TB-1a deep	10-Nov-06																	
TB-1a deep	20-Apr-07																	
TB-1a deep	8-Nov-07																	
TB-1a deep	19-May-08			15.6J			**22.6**		5.37J	5.36J		6.9J		4.69J		**5.54**	**6.86J**	7.06J
TB-1a deep	7-Nov-08			15.2JB	1.05B		**16.8B**		8.18JB	5.33JB				8.69JB			**18.9JB**	
TB-1a deep	12-Mar-09				**4.48**	0.23J	**12.6**		3.46JB	6.73J							**9.29JB**	18.5
TB-1a deep	4-Dec-09			30.1JB			**12.6B**		9.35JB			7.1J		3.05JB			**4.21JB**	77.9B
TB-1a deep	11-May-10	0.553J		13J			**19.5**		3.25J			3.51J	1.07J				**8.23J**	22.4
MW-33	6-Aug-98					**5.8**	46	18									**73**	110
MW-33	7-Dec-98					**2.7**	18											
MW-33	26-Apr-99						15.5											58.5
MW-33	2-Dec-99						18.1											61
MW-33	13-Apr-00																	
MW-33	18-Apr-01																	
MW-33	9-Apr-02																	
MW-33	16-Apr-03					1.2	26.9	11.8									**47.1**	71.5
MW-33	21-Apr-04						10.5											
MW-33	22-Apr-05			660	3		**54**	18		**32**							**92**	885
MW-33	14-Apr-06				3		47	15		**27**							**80**	669
MW-33	20-Apr-07						19		14								**30**	**1165**
MW-33	15-May-08			54.9J			20.2		14.6	5.11J		6.9J		4.47J		**10.7**	**19.2J**	31.1
MW-33	12-Mar-09			21.9J			4.58J		1.88JB	4.65J							**7.79JB**	5.35J
MW-33	12-May-10			100			**44.7**	14.4	30	3.13J		16.5J					**68.1**	90.9
MW-34	6-Aug-98				**4.9**	**8.4**	43	20				64					**110**	180
MW-34	7-Dec-98					**2.2**	14											59
MW-34	26-Apr-99																	73.2
MW-34	2-Dec-99																	
MW-34	13-Apr-00																	
MW-34	18-Apr-01																	
MW-34	9-Apr-02																	
MW-34	16-Apr-03																	
MW-34	21-Apr-04															**10.3**		
MW-34	22-Apr-05			1108	**10**	1.0	29			**33**							**74**	439
MW-34	13-Apr-06																	
MW-34	20-Apr-07																	16
MW-34	19-May-08			121			11.7		12.3		0.191J	5.43J		4.19J			**8.81J**	23
MW-34	12-Mar-09			73J			3.78J		3.8JB		0.121J						**12.7JB**	12.2
MW-34	12-May-10		4.96J	393	1.63	0.50J	**47.5**	14.5	63.2	13	0.246	31.3J				0.127J	**99.6**	129

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1.4***	**10**	**700**	**4***	**2**	**10**	**70***	**1,000**	**15**	**1**	**100**	**20**	**20**	**NE**	**0.28***	**3.5***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-34d	6-Aug-98																	
MW-34d (dup)	6-Aug-98																	
MW-34d	7-Dec-98																	
MW-34d	26-Apr-99																	
MW-34d	2-Dec-99																	
MW-34d	13-Apr-00																	
MW-34d	18-Apr-01																	
MW-34d	9-Apr-02						12.5											
MW-34d	16-Apr-03																	
MW-34d	21-Apr-04																	
MW-34d	22-Apr-05																	
MW-34d	13-Apr-06					**4.0**												
MW-34d	20-Apr-07																	
MW-34d	19-May-08			27.4J			10.1		3.95J	5.49J				4.46J				
MW-34d	12-Mar-09			21.5J			4.48J		2.29JB							**5.78**	**8.27JB**	18
MW-34d	11-May-10			23.1J		0.396J	8.78J		13.5								1.52J	20.3
MW-35	6-Aug-98				**4.3**	**9.8**	47	30				52					**120**	130
MW-35	7-Dec-98					**4.6**	22	15				79					**43**	74
MW-35	26-Apr-99							13										
MW-35	2-Dec-99																	
MW-35	13-Apr-00																	
MW-35	18-Apr-01																	
MW-35	9-Apr-02																	
MW-35	16-Apr-03																	
MW-35	21-Apr-04																	
MW-35	22-Apr-05				**5**		19			**18**							**52**	134
MW-35	13-Apr-06				2		10											
MW-35	20-Apr-07			316	**6**	1.0	39	10	55	**19**							**109**	149
MW-35	19-May-08			49.5J			5.40J		6.03J					4.43J		**11.7**		8.04J
MW-35	10-Mar-09			34J										1.42JB		**8.59J**		
MW-35	12-May-10			109	0.648J		**16.2**	9.60J	22.7	3.21J		8.98J					**42.9**	44.9
MW-36	4-Dec-08			159B			**52.3B**	21.9	57.5B	13.6	0.13JB	24.2J	9.10J				**81.6**	47.1
MW-36	10-Mar-09			107			**13**	5.23J	19.1			5.71J		1.56JB			**27.2**	11.5
MW-36	4-Dec-09			71.1JB			4.21JB		8.25JB	9.4JB				2.78JB			**3.72JB**	4.9JB
MW-36	12-May-10			96.9J			**18.3**	7.48J	18.9			7.38J					**24.0J**	23.3
MW-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

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

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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																																						

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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																																						

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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
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
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
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
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
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																					

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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
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						

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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								

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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
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					

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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
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
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						

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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																													

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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
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					

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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
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
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						

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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-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																													

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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																																						

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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																																						

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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
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-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
May 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	10	10	10
MW-28	1-May-98																																						
MW-28	17-Aug-98																																						
MW-28	9-Sep-98																																						
MW-28	7-Oct-98																																						
MW-28	9-Dec-98																																		12				
MW-28	12-Jan-99																																						
MW-28	9-Feb-99																																						
MW-28	19-Apr-99																																						
MW-28	3-Dec-99																																						
MW-28	12-Apr-00																																						
MW-28	18-Apr-01																																						
MW-28	12-Apr-02																																						
MW-28	17-Apr-03																																						
MW-28	26-Apr-04																																						
MW-28	22-Apr-05																																						
MW-28	14-Apr-06																																						
MW-28	20-Apr-07																																						
MW-28	19-May-08									0.39J																													
MW-28	12-Mar-09									0.39J																													
MW-28	13-May-10																																						
MW-28d	1-May-98																																						
MW-28d	17-Aug-98																																						
MW-28d	9-Sep-98																																						
MW-28d	7-Oct-98																																						
MW-28d	9-Dec-98																																		20				
MW-28d	12-Jan-99																																						
MW-28d (dup)	12-Jan-99																																						
MW-28d	9-Feb-99																																						
MW-28d	19-Apr-99																																						
MW-28d	3-Dec-99																																		94				
MW-28d	12-Apr-00																																		46				
MW-28d	18-Apr-01																																						
MW-28d	12-Apr-02																																		36				
MW-28d	17-Apr-03																																						
MW-28d	26-Apr-04																																		28.3				
MW-28d	22-Apr-05																																						
MW-28d	14-Apr-06																																						
MW-28d	20-Apr-07																																						
MW-28d	19-May-08									0.45J																													
MW-28d	12-Mar-09									0.33J																	0.42J												
MW-28d	13-May-10																																						

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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																																						

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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																																						

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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																													

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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																													

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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																																						

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	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 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																													

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	10	10	10
MW-33	6-Aug-98																																						
MW-33	7-Dec-98																																						
MW-33	26-Apr-99																																						
MW-33	2-Dec-99																																						
MW-33	13-Apr-00																																						
MW-33	18-Apr-01																																						
MW-33	9-Apr-02																																						
MW-33	16-Apr-03																																						
MW-33	21-Apr-04																																						
MW-33	22-Apr-05																																						
MW-33	14-Apr-06																																						
MW-33	20-Apr-07																																						
MW-33	15-May-08																																						
MW-33	12-Mar-09																																						
MW-33	12-May-10																																						
MW-34	6-Aug-98																																						
MW-34	7-Dec-98																																						
MW-34	26-Apr-99																																						
MW-34	2-Dec-99																																						
MW-34	13-Apr-00																																						
MW-34	18-Apr-01																																						
MW-34	9-Apr-02																																						
MW-34	16-Apr-03																																						
MW-34	21-Apr-04																																						
MW-34	22-Apr-05																																						
MW-34	14-Apr-06														12.7			6.9																					
MW-34	20-Apr-07														13.8			6.2																					
MW-34	19-May-08		0.56J						1.74J	0.45J		0.95J		1.72J	15.3		0.23J	9.75					**10.7**				**2.14**		0.13J	**3.07**	0.56J			0.16J					
MW-34	12-Mar-09		0.47J						1.26J	0.37J		0.71J		1.72J	13.5		0.47J	9.34					**12.7**				**1.71**			2.67	0.68J			0.15J					
MW-34	12-May-10		0.64J						1.4J	0.70J		1.2		2.1J	**16**			8.7					**6**				**1.7**			2.9	0.96J								
MW-34d	6-Aug-98																																		7.3				
MW-34d (dup)	6-Aug-98																																						
MW-34d	7-Dec-98																																						
MW-34d	26-Apr-99																																						
MW-34d	2-Dec-99																																						
MW-34d	13-Apr-00																																						
MW-34d	18-Apr-01																																						
MW-34d	9-Apr-02														5																								
MW-34d	16-Apr-03														11																								
MW-34d	21-Apr-04														6.8																								
MW-34d	22-Apr-05														5.7																								
MW-34d	14-Apr-06																																						
MW-34d	20-Apr-07														6.9																				35				
MW-34d	19-May-08									0.21J				0.36J	1.64J			1.07J					0.2J				0.32J			0.38J	0.19J								
MW-34d	12-Mar-09														0.64J			0.62J									0.51J			0.19J					1.02J				
MW-34d	11-May-10													0.41J	3.3J			1.7J												0.59J									

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

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1.0	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	10	10	10	10
MW-35	6-Aug-98																																						
MW-35	7-Dec-98																																						
MW-35	26-Apr-99																																						
MW-35	2-Dec-99																																						
MW-35	13-Apr-00																																						
MW-35	18-Apr-01																																						
MW-35	9-Apr-02																																						
MW-35	16-Apr-03																																						
MW-35	21-Apr-04																																						
MW-35	22-Apr-05																																						
MW-35	14-Apr-06																																						
MW-35	20-Apr-07																																						
MW-35	19-May-08					0.55J				0.17J																	0.13J												
MW-35	10-Mar-09									0.15J				0.67J																									
MW-35	12-May-10													0.57J																									
MW-36	4-Dec-08		0.81J						0.77J	0.14J		1.46		2.25J	23.5		0.40J	7.6					0.77J				2.00			3.4	0.28J		0.84J				0.906J		
MW-36	10-Mar-09		0.86J						1.16J	0.13J		1.42		2.52J	23.4	0.36J	0.41J	7.9		0.3J			0.64J				1.62			3.22	0.38J		0.96J						
MW-36	4-Dec-09		0.68J		*1.78J				0.8J		*485	1.4		1.56J	18.6		0.33J	7.25		0.27J		*3.84J	0.46J				0.92J			2.29			0.94J						
MW-36	12-May-10		0.56J						0.45J			1.4		1.4J	17			6.5									0.86J			1.8			0.96J						
MW-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									

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

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

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

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

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

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

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

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

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

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

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

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Silver	Thallium	Vanadium	Zinc
NC2B		50	NE	6.4	2	50	NE	7*	25	88	0.06	NE	NE	50*
SWSL		10	100	1	1	10	10	10	10	50	10	5.5	25	10
SW-2	13-Jun-95													
SW-2	31-Oct-95				**2**									
SW-2	28-Nov-96		25				2							21
SW-2	21-Apr-97		29											
SW-2	5-Nov-97													
SW-2	11-May-98													
SW-2	24-Nov-98													
SW-2	14-Apr-99													
SW-2	9-Apr-02													
SW-2	16-Apr-03													
SW-2	29-Oct-03													
SW-2	8-Apr-04													
SW-2	18-Nov-04				1									
SW-2	21-Apr-05													
SW-2	11-Nov-05													
SW-2	13-Apr-06													
SW-2	9-Nov-06													
SW-2	20-Apr-07													
SW-2	7-Nov-07													
SW-2	21-May-08		28.9J			1.53J		5.97J						5.81J
SW-2	7-Nov-08		33.5JB	3.10B		4.28JB		**7.72JB**	3.62JB		**8.20JB**		15.1JB	4.51J
SW-2	16-Mar-09		52.8JB	**9.06B**		4.73JB		**8.54JB**	3.61JB		**2.01JB**	5.89	10.4JB	12.5
SW-2	2-Dec-09		16.7J	0.46J				**7.65JB**					8.31JB	7.57JB
SW-2	13-May-10		33.8J			1.05J		1.62J						4.98J
SW-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

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

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Silver	Thallium	Vanadium	Zinc
NC2B		**50**	**NE**	**6.4**	**2**	**50**	**NE**	**7***	**25**	**88**	**0.06**	**NE**	**NE**	**50***
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**50**	**10**	**5.5**	**25**	**10**
SW-7	7-Nov-08		50.8JB			16.0B	10.7	**20.3B**	9.63JB		**9.62JB**		19.8JB	6.33J
SW-7	16-Mar-09	3.45J	45.5JB	5.37B		4.51JB		**7.4JB**	9.39JB		**2.04JB**		14.8JB	7.09J
SW-7	2-Dec-09		21.1J	0.05J		4.8J		**7.02JB**					8.72JB	8.19JB
SW-7	13-May-10		25.0J										1.44J	
SW-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											

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

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

Monitor Well	Sample Date	Acetone	Bromodichloromethane	Bromoform	2-Butanone (MEK)	Carbon Disulfide	Chloroform	Chloromethane	Dibromochloromethane	Cis 1,2-Dichloroethene	1,1-Dichloroethane	Methylene Chloride	Tetrachloroethene	Toluene	Trichlorofluoromethane
NC2B		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	10.8	11	NE
SWSL		100	1	3	100	1000	5	1	1	5	5	1	1	1	1
SW-2	18-Nov-04														
SW-2	21-Apr-05														
SW-2	11-Nov-05														
SW-2	14-Apr-06														
SW-2	9-Nov-06														
SW-2	19-Apr-07														
SW-2	9-Nov-07						0.2J	0.3J							
SW-2	21-May-08						0.13J								
SW-2	7-Nov-08						0.13J					0.21J			
SW-2	16-Mar-09														
SW-2	2-Dec-09														
SW-2	13-May-10														
SW-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-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-8	7-Nov-08										0.12J	0.20J			
SW-8	16-Mar-08														
SW-8	2-Dec-09														
SW-8	11-May-10														

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

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

WELL	MAY 2010 PARAMETERS STATISTICALLY OVER BACKGROUND	MAY 2010 PARAMETERS EXCEEDING NC2L STANDARD
MW-11	Designated Shallow Background Well	None
MW-11d	Designated Deep Background Well	**Vanadium***
MW-5R	p-Dichlorobenzene	None
MW-6	Cobalt, Benzene	Cadmium, Benzene, Vinyl Chloride
MW-6d	1,1-Dichloroethane	**Vanadium***, 1,1-Dichloroethane, **Tetrachloroethene**
MW-7	Cobalt,	**Vanadium*,** Benzene, Vinyl Chloride
MW-8	cis-1,2-Dichloroethene	**Vinyl Chloride**
MW-8d	None	**Vanadium***
MW-9	p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Ethylbenzene Vinyl Chloride	p-Dichlorobenzene, 1,1-Dichloroethane, **1,2-Dichloroethane**, 1,2-Dichloropropane, Vinyl Chloride
MW-10	cis-1,2-Dichloroethene	Tetrachloroethene, Vinyl Chloride
MW-10d	None	Chromium
MW-22	Cadmium, Cobalt	Cadmium
MW-23	None	Chromium, Lead, **Thallum***, Vanadium*
MW-23d	None	**Antimony*, Vanadium***
MW-24	Chloroform	**Vanadium***
MW-27	ABANDONED	ABANDONED
MW-28	None	**Vanadium***
MW-28d	None	None
MW-29d	None	None
MW-30	Chromium	Barium, Chromium, Lead, Nickel, **Thallium***, Vanadium*
MW-31	Chromium	Chromium, Vanadium*
MW-31d	Chloroform	**Vanadium***
MW-32	None	**Vanadium***
TB-1a	Cadmium	Vanadium*
TB-1a deep	Chromium, Chloroform	Chromium**, Vanadium***
MW-33	Chromium	Chromium, Vanadium*
MW-34	p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Methylene Chloride, Tetrachloroethene, Trichloroethene	Chromium, Vanadium*, 1,1-Dichloroethane, Methylene Chloride, Tetrachloroethene
MW-34d	None	None
MW-35	None	Chromium, Vanadium*
MW-36	p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Trichloroethene	Chromium, **Vanadium***, 1,1-Dichloroethane, **Tetrachloroethene**, **Vinyl Chloride**
MW-36d	Chromium, Copper, Vanadium, 1,1-Dichloroethane, Tetrachloroethene, Trichloroethene	Chromium, Vanadium*, 1,1-Dichloroethane, Tetrachloroethene

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

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

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

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

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

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

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen	BOD	COD	Methane (ug/l)	Ethane (ug/l)	Ethene (ug/l)	Chloride	Nitrate	Total Organic Carbon	Alkalinity (CaCO3 - Lab)	Alkalinity (CaCO3 - Field)	Sulfate (Lab)	Sulfate (Field)	Sulfide (Lab)	Free Chlorine	Carbon Dioxide	Ferrous Iron	Acetic Acid	Butyric Acid	Lactic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nM)
MW-8	3-Dec-98		5.75							7.3																
MW-8	20-Dec-00	66	5.42							6.84	0.09	5.9							22							
MW-8	16-Apr-01	54	5.61				17			3.2	0.23	1.3			0.89		0.04		32							
MW-8	3-Dec-01	111	6.40							3					0.61		0.01		39.6							
MW-8	12-Apr-02	51	6.00				42			3.5					0.81				31							
MW-8	5-Nov-02	44	6.05				11			3.4	0.42	0.7			1.1		0.06		29							
MW-8	17-Apr-03	171	6.30	1.70						4	0.33	2.3			1.1				13							
MW-8	4-Nov-03	127	5.15	1.68			22			3.9		0.7			1				44							
MW-8	14-Apr-04	235	5.86	1.58			371			3.82		2.2			0.912				52.8							
MW-8	20-May-08	63	5.83	1.42	<2	<5	631	<20	<20	5.85	0.158J	0.469J	59		5.46		<0.01		97	<0.2	<1	<1	<25	<1	<10	1.1
MW-8	10-Nov-08	55	5.84	0.26	<2	5	654	<20	<20	6.29	0.211J	0.603	60		<0.3		<0.01		101	<0.2	<1	<1	<25	<1	<10	1.4
MW-8	11-Mar-09	27	5.65	0.31	<2	<25	264	<100	<100	6.27	0.119J	0.752	68.7		0.793		<0.05		88	0.78	<1	<1	<25	<1	<10	1.1
MW-8	3-Dec-09	83	6.11	1.28	<2	20	647	<200	<200	6.09	0.256	0.749	63.5		1.07		<0.05		*	0.88	<1	<1	<25	<1	<10	2.1
MW-8	12-May-10	88	6.14	1.09	<2	9.6J	497	<2	<2	7.9	0.66J	1.3	73		2.2J		<0.1		127	0.793	<0.5	<0.5	<0.5	<0.5	<0.5	3.0
MW-9	3-Dec-98		6.27							15																
MW-9	20-Dec-00	102	4.79				3340			21.9	0.09	12.3							176							
MW-9	16-Apr-01	64	5.79				790			19	0.24	5.5			0.75				121	1.28						1.28
MW-9	3-Dec-01	21	6.41				2700			24					0.38				123	2.5						2.5
MW-9	12-Apr-02	77	6.11				1200			29					0.32				136	9.8						9.8
MW-9	5-Nov-02	39	6.16				470			24		5.7			0.66				236	1.67						1.67
MW-9	17-Apr-03	-106	6.39	0.25			1900			36		30.3			0.42				44	6.3						6.3
MW-9	4-Nov-03	-110	5.76	0.14			1800			53		14.2			0.46				312	1.48						1.48
MW-9	14-Apr-04	58	6.33	0.81			3500			92.5		13.3			0.386				299	ND						ND
MW-9	20-May-08	-97	6.28	1.39	7	10	2980	<400	<400	20.1	<0.3	3.12	254		0.58		<0.01		260	18.3	<1	<1	<25	<1	<10	18.3
MW-9	11-Nov-08	-37	6.18	2.45	7	27	1910	<200	<200	18.9	<0.3	3.36	263		<0.3		<0.01		264	15.4	<1	<1	<25	<1	<10	
MW-9	11-Mar-09	-9	6.03	2.07	<2	46	1730	<200	<200	20.1	<0.3	4.56	262		0.608		<0.05		233	17.6	<1	0.4J	<25	0.4J	<10	
MW-9	3-Dec-09	-7	6.38	1.52	<2	44	1740	<200	<200	20.5	<0.3	2.97	233		4.31		<0.05		167	14.8	<1	<1	<25	<1	<10	
MW-9	12-May-10	38	6.19	2.20	<2	66	1150	<2	1J	27	0.076J	8.4	200		2.20J		<0.1		307	16.5	<0.5	<0.5	<0.5	2.9	<0.5	

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

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

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

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen	BOD	COD	Methane (ug/l)	Ethane (ug/l)	Ethene (ug/l)	Chloride	Nitrate	Total Organic Carbon	Alkalinity (CaCO3 - Lab)	Alkalinity (CaCO3 - Field)	Sulfate (Lab)	Sulfate (Field)	Sulfide (Lab)	Free Chlorine	Carbon Dioxide	Ferrous Iron	Acetic Acid	Butyric Acid	Lactic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nM)
TB-1a	9-Dec-98	193.8	5.98	0.64						4.1		0.54	95	120		2		0.05	500	0.15						0.15
TB-1a	20-Dec-00	63	5.52				2470			6.6	0.09	3.3							62							
TB-1a	17-Apr-01	78	5.63				1500			5.1	0.29	2.4			0.58		0.1		99							
TB-1a	3-Dec-01	111	6.01							3.1									52.8							
TB-1a	12-Apr-02	42	5.70				990			1.6									84							
TB-1a	5-Nov-02	58	5.83				400			4.2		0.7			0.47				138							
TB-1a	17-Apr-03	163	5.82	0.54			17			6.1	0.79	8.5			0.82		0.03		4							
TB-1a	4-Nov-03	1	5.04	0.16						7.5		1.6			0.46				213							
TB-1a	14-Apr-04	257	5.36	0.94						8.47		4.8			0.577				101							
TB-1a	20-May-08	-102	5.94	2.22	<2	<5	<7.2	<20	<20	14.9	0.356	0.864	42		11.6		<0.01		48	0.24	<1	<1	<25	<1	0.9J	0.24
TB-1a	11-Nov-08	65	6.11	4.08	<2	50	5.1J	<20	<20	15.1	0.338	1.13	42		4.08		<0.01		106	1.59	<1	<1	<25	<1	<10	
TB-1a	11-Mar-09	-44	5.91	1.98	<2	<25	<7.2	<20	<20	12.8	0.209J	1.05	53.4		10.5		<0.05		114	3.06	<1	<1	<25	<1	<10	
TB-1a	3-Dec-09	88	6.24	1.97	<2	20	<7.2	<20	<20	12.7	0.456	1.22	61.6		11.9		<0.05		88	4.7	<1	<1	<25	<1	<10	
MW-36	12-May-10	161	5.87	1.51	<2	36	3	<2	<2	8.1	2.30J	2.9	74		5.30J		<0.1		162	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	

Notes:

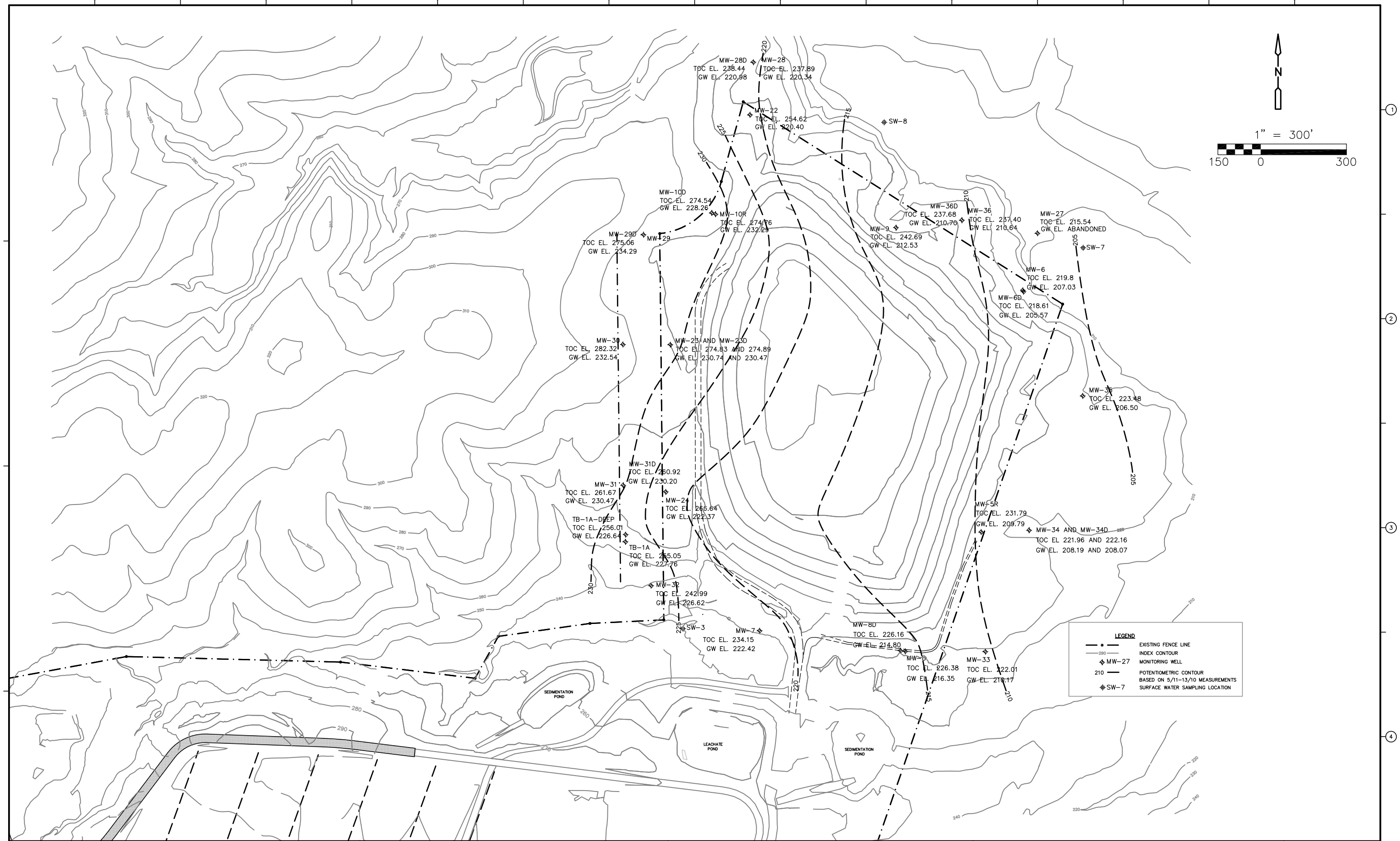
MW-11 & MW-11d are background wells for the site

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

-Blank Cells Indicate No Data Collected

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

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



REV. NO.	DATE	DRWN	CHKD	REMARKS

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

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

WAKE COUNTY
NORTH CAROLINA

NORTH WAKE UNLINED LANDFILL

POTENTIOMETRIC CONTOUR MAP

PROJECT NO. 6172-76963
FILE NAME: NW-Unld-S-10.dwg

FIGURE
1

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

Friday, May 28, 2010

CDM (CD004)

Attn: Aaron Weispfenning

5400 GLENWOOD AVE SUITE 300

RALEIGH, NC 27612-

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: North Wake Unlined Landfill
ENCO Workorder: C005241

Dear Aaron Weispfenning,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, May 13, 2010.

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

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

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

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

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 160.

PROJECT NARRATIVE

Client: CDM (CD004)
Project: North Wake Unlined Landfill
Lab ID: C005241

Overview

This report is an amendment to the original report dated XXXXX for this work order. This report was revised, at the client's request,

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

Quality Control Samples

No Comments

Quality Control Remarks

No Comments

Other Comments

As an analyst oversight, the Herbicide (8151) analysis for sample 9209-MW11 was extracted outside of the method specified holding time.

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

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 9209-MW5R | **Lab ID: C005241-01** | **Sampled: 05/12/10 10:00** | **Received: 05/13/10 08:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	06/09/10			05/17/10	06:41	5/17/2010 17:28
EPA 353.2	05/14/10	10:00		05/14/10	06:44	5/14/2010 07:38
EPA 353.2	06/09/10			05/13/10	11:32	5/13/2010 13:18
EPA 353.2	06/09/10			05/14/10	10:37	5/14/2010 10:37
EPA 6010C	11/08/10			05/13/10	10:07	5/14/2010 10:46
EPA 6020A	11/08/10			05/13/10	10:11	5/18/2010 11:48
EPA 7470A	06/09/10			05/14/10	10:27	5/14/2010 15:51
EPA 8081B	05/19/10		06/23/10	05/14/10	15:15	5/17/2010 14:34
EPA 8260B	05/26/10			05/13/10	13:23	5/14/2010 21:50
RSK 175	05/26/10			05/24/10	08:45	5/24/2010 10:42
SM 5210B	05/14/10	10:00		05/13/10	15:40	5/13/2010 15:40
SM 5220D	06/09/10			05/13/10	12:47	5/13/2010 16:56
SM18 4500-S D	05/19/10			05/17/10	11:36	5/17/2010 11:54
SM18 5310B	06/09/10			05/24/10	14:06	5/24/2010 14:40
Volatile Fatty Acids	05/26/10			05/19/10	08:59	5/19/2010 16:58

Client ID: 9209-MW5R | **Lab ID: C005241-01RE1** | **Sampled: 05/12/10 10:00** | **Received: 05/13/10 08:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 310.2	05/26/10	05/17/10	08:36	5/17/2010 09:40

Client ID: 9209-MW6 | **Lab ID: C005241-02** | **Sampled: 05/12/10 08:30** | **Received: 05/13/10 08:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	06/09/10			05/17/10	06:41	5/17/2010 17:48
EPA 353.2	05/14/10	08:30		05/14/10	06:44	5/14/2010 07:40
EPA 353.2	06/09/10			05/13/10	11:32	5/13/2010 13:24
EPA 353.2	06/09/10			05/14/10	10:37	5/14/2010 10:37
EPA 6010C	11/08/10			05/13/10	10:07	5/14/2010 10:59
EPA 6020A	11/08/10			05/13/10	10:11	5/18/2010 11:52
EPA 7470A	06/09/10			05/14/10	10:27	5/14/2010 15:54
EPA 8081B	05/19/10		06/23/10	05/14/10	15:15	5/17/2010 14:47
EPA 8260B	05/26/10			05/13/10	13:23	5/14/2010 22:20
EPA 8270D	05/19/10		06/26/10	05/17/10	08:41	5/17/2010 17:17
RSK 175	05/26/10			05/24/10	08:45	5/24/2010 10:45
SM 5210B	05/14/10	08:30		05/13/10	15:40	5/13/2010 15:40
SM 5220D	06/09/10			05/13/10	12:47	5/13/2010 16:56
SM18 4500-S D	05/19/10			05/17/10	11:36	5/17/2010 11:54
SM18 5310B	06/09/10			05/24/10	14:06	5/24/2010 14:40
Volatile Fatty Acids	05/26/10			05/19/10	08:59	5/19/2010 18:00

Client ID: 9209-MW6 | **Lab ID: C005241-02RE1** | **Sampled: 05/12/10 08:30** | **Received: 05/13/10 08:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	06/09/10	05/17/10	06:41	5/18/2010 07:26
RSK 175	05/26/10	05/24/10	08:45	5/24/2010 12:41

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Client ID: 9209-MW6	Lab ID: C005241-02RE2	Sampled: 05/12/10 08:30	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 310.2	05/26/10	05/17/10 08:36	5/17/2010 09:51

Client ID: 9209-MW6d	Lab ID: C005241-03	Sampled: 05/12/10 08:00	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/08/10	05/13/10 10:07	5/14/2010 11:02
EPA 6020A	11/08/10	05/13/10 10:11	5/18/2010 11:56
EPA 7470A	06/09/10	05/14/10 10:27	5/14/2010 15:57
EPA 8260B	05/26/10	05/13/10 13:23	5/14/2010 22:49

Client ID: 9209-MW8	Lab ID: C005241-04	Sampled: 05/12/10 11:00	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	06/09/10	05/17/10 06:41	5/17/2010 18:09
EPA 310.2	05/26/10	05/17/10 08:36	5/17/2010 09:23
EPA 353.2	05/14/10 11:00	05/14/10 06:44	5/14/2010 07:41
EPA 353.2	06/09/10	05/13/10 11:32	5/13/2010 13:26
EPA 353.2	06/09/10	05/14/10 10:37	5/14/2010 10:37
EPA 6010C	11/08/10	05/13/10 10:07	5/14/2010 11:04
EPA 6020A	11/08/10	05/13/10 10:11	5/18/2010 11:59
EPA 7470A	06/09/10	05/14/10 10:27	5/14/2010 16:00
EPA 8260B	05/26/10	05/13/10 13:23	5/14/2010 23:19
RSK 175	05/26/10	05/24/10 08:45	5/24/2010 10:49
SM 5210B	05/14/10 11:00	05/13/10 15:40	5/13/2010 15:40
SM 5220D	06/09/10	05/13/10 12:47	5/13/2010 16:56
SM18 4500-S D	05/19/10	05/17/10 11:36	5/17/2010 11:54
SM18 5310B	06/09/10	05/24/10 14:06	5/24/2010 14:40
Volatile Fatty Acids	05/26/10	05/19/10 08:59	5/19/2010 19:03

Client ID: 9209-MW9	Lab ID: C005241-05	Sampled: 05/12/10 12:45	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	06/09/10	05/17/10 06:41	5/17/2010 18:30
EPA 353.2	05/14/10 12:45	05/14/10 06:44	5/14/2010 07:42
EPA 353.2	06/09/10	05/13/10 11:32	5/13/2010 13:29
EPA 353.2	06/09/10	05/14/10 10:37	5/14/2010 10:37
EPA 6010C	11/08/10	05/13/10 10:07	5/14/2010 11:14
EPA 6020A	11/08/10	05/13/10 10:11	5/18/2010 11:23
EPA 7470A	06/09/10	05/14/10 10:27	5/14/2010 15:17
EPA 8081B	05/19/10 06/23/10	05/14/10 15:15	5/17/2010 15:01
EPA 8260B	05/26/10	05/13/10 13:23	5/14/2010 23:49
EPA 8270D	05/19/10 06/26/10	05/17/10 08:41	5/17/2010 17:44
RSK 175	05/26/10	05/24/10 08:45	5/24/2010 10:53
SM 5210B	05/14/10 12:45	05/13/10 15:40	5/13/2010 15:40
SM 5220D	06/09/10	05/13/10 12:47	5/13/2010 16:56
SM18 4500-S D	05/19/10	05/17/10 11:36	5/17/2010 11:54
SM18 5310B	06/09/10	05/24/10 14:06	5/24/2010 14:40
Volatile Fatty Acids	05/26/10	05/19/10 08:59	5/19/2010 20:06

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Client ID: 9209-MW9	Lab ID: C005241-05RE1	Sampled: 05/12/10 12:45	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 310.2	05/26/10			05/17/10	08:36	5/17/2010	09:41
RSK 175	05/26/10			05/24/10	08:45	5/24/2010	12:45

Client ID: 9209-MW10	Lab ID: C005241-06	Sampled: 05/12/10 12:10	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	06/09/10			05/17/10	06:41	5/17/2010	18:50
EPA 310.2	05/26/10			05/17/10	08:36	5/17/2010	09:25
EPA 353.2	05/14/10	12:10		05/14/10	06:44	5/14/2010	07:46
EPA 353.2	06/09/10			05/13/10	11:32	5/13/2010	13:30
EPA 353.2	06/09/10			05/14/10	10:37	5/14/2010	10:37
EPA 6010C	11/08/10			05/13/10	10:07	5/14/2010	11:17
EPA 6020A	11/08/10			05/13/10	10:11	5/18/2010	12:03
EPA 7470A	06/09/10			05/14/10	10:27	5/14/2010	16:02
EPA 8260B	05/26/10			05/13/10	13:23	5/15/2010	00:19
EPA 8270D	05/19/10		06/26/10	05/17/10	08:41	5/17/2010	18:11
RSK 175	05/26/10			05/24/10	08:45	5/24/2010	10:57
SM 5210B	05/14/10	12:10		05/13/10	15:40	5/13/2010	15:40
SM 5220D	06/09/10			05/13/10	12:47	5/13/2010	16:56
SM18 4500-S D	05/19/10			05/17/10	11:36	5/17/2010	11:54
SM18 5310B	06/09/10			05/24/10	14:06	5/24/2010	14:40
Volatile Fatty Acids	05/26/10			05/19/10	08:59	5/19/2010	21:09

Client ID: 9209-MW10	Lab ID: C005241-06RE1	Sampled: 05/12/10 12:10	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
RSK 175	05/26/10			05/24/10	08:45	5/24/2010	12:48

Client ID: 9209-MW11	Lab ID: C005241-07	Sampled: 05/12/10 14:00	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	06/09/10			05/17/10	06:41	5/17/2010	19:11
EPA 310.2	05/26/10			05/17/10	08:36	5/17/2010	09:26
EPA 353.2	05/14/10	14:00		05/14/10	06:44	5/14/2010	07:48
EPA 353.2	06/09/10			05/13/10	11:32	5/13/2010	13:32
EPA 353.2	06/09/10			05/14/10	10:37	5/14/2010	10:37
EPA 6010C	11/08/10			05/13/10	10:07	5/14/2010	11:19
EPA 6020A	11/08/10			05/13/10	10:11	5/18/2010	12:06
EPA 7470A	06/09/10			05/14/10	10:27	5/14/2010	16:12
EPA 8081B	05/19/10		06/23/10	05/14/10	15:15	5/17/2010	15:14
EPA 8151A	05/19/10		06/29/10	05/20/10	12:34	5/24/2010	16:44
EPA 8270D	05/19/10		06/26/10	05/17/10	08:41	5/17/2010	18:38
RSK 175	05/26/10			05/24/10	08:45	5/24/2010	11:00
SM 5210B	05/14/10	14:00		05/13/10	15:40	5/13/2010	15:40
SM 5220D	06/09/10			05/13/10	12:47	5/13/2010	16:56
SM18 4500-S D	05/19/10			05/17/10	11:36	5/17/2010	11:54
SM18 5310B	06/09/10			05/24/10	14:06	5/24/2010	14:40
Volatile Fatty Acids	05/26/10			05/19/10	08:59	5/19/2010	22:11

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Client ID: 9209-MW11	Lab ID: C005241-07RE1	Sampled: 05/12/10 14:00	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	05/26/10		05/15/10	08:27	5/15/2010 16:15

Client ID: 9209-MW22	Lab ID: C005241-08	Sampled: 05/12/10 07:00	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/08/10		05/13/10	10:07	5/14/2010 11:21
EPA 6020A	11/08/10		05/13/10	10:11	5/18/2010 12:10
EPA 7470A	06/09/10		05/14/10	10:27	5/14/2010 16:15
EPA 8081B	05/19/10	06/23/10	05/14/10	15:15	5/17/2010 15:28
EPA 8260B	05/26/10		05/14/10	14:21	5/15/2010 04:48
EPA 8270D	05/19/10	06/26/10	05/17/10	08:41	5/17/2010 19:05

Client ID: 9209-MW30	Lab ID: C005241-09	Sampled: 05/12/10 14:55	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/08/10		05/13/10	10:07	5/14/2010 11:24
EPA 6020A	11/08/10		05/13/10	10:11	5/18/2010 12:13
EPA 7470A	06/09/10		05/14/10	10:27	5/14/2010 16:18
EPA 8081B	05/19/10	06/23/10	05/14/10	15:15	5/17/2010 15:41
EPA 8260B	05/26/10		05/14/10	13:18	5/15/2010 05:17

Client ID: 9209-MW31	Lab ID: C005241-10	Sampled: 05/12/10 14:30	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/08/10		05/13/10	10:07	5/14/2010 11:26
EPA 6020A	11/08/10		05/13/10	10:11	5/18/2010 12:24
EPA 7470A	06/09/10		05/14/10	10:27	5/14/2010 16:21
EPA 8081B	05/19/10	06/23/10	05/14/10	15:15	5/17/2010 15:54
EPA 8260B	05/26/10		05/14/10	13:18	5/15/2010 05:45

Client ID: 9209-MW31d	Lab ID: C005241-11	Sampled: 05/11/10 12:35	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/07/10		05/13/10	10:07	5/14/2010 11:28
EPA 6020A	11/07/10		05/13/10	10:11	5/18/2010 12:28
EPA 7470A	06/08/10		05/14/10	10:27	5/14/2010 16:24
EPA 8260B	05/25/10		05/14/10	13:18	5/15/2010 06:14
EPA 8270D	05/18/10	06/26/10	05/17/10	08:41	5/17/2010 19:32

Client ID: 9209-MW32	Lab ID: C005241-12	Sampled: 05/12/10 15:15	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/08/10		05/13/10	10:07	5/14/2010 11:31
EPA 6020A	11/08/10		05/13/10	10:11	5/18/2010 12:32
EPA 7470A	06/09/10		05/14/10	10:27	5/14/2010 16:26
EPA 8260B	05/26/10		05/14/10	13:18	5/15/2010 06:43

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Client ID: 9209-TB1a	Lab ID: C005241-13	Sampled: 05/12/10 14:40	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/08/10		05/13/10	10:07	5/14/2010 11:33
EPA 6020A	11/08/10		05/13/10	10:11	5/18/2010 12:35
EPA 7470A	06/09/10		05/14/10	10:27	5/14/2010 16:30
EPA 8081B	05/19/10	06/23/10	05/14/10	15:15	5/17/2010 16:07
EPA 8260B	05/26/10		05/14/10	13:18	5/15/2010 07:11

Client ID: 9209-TB1ad	Lab ID: C005241-14	Sampled: 05/11/10 13:25	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/07/10		05/13/10	10:07	5/14/2010 11:36
EPA 6020A	11/07/10		05/13/10	10:11	5/18/2010 12:39
EPA 7470A	06/08/10		05/14/10	10:27	5/14/2010 16:33
EPA 8260B	05/25/10		05/14/10	13:18	5/15/2010 07:40

Client ID: 9209-MW33	Lab ID: C005241-15	Sampled: 05/12/10 10:40	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/08/10		05/13/10	10:07	5/14/2010 11:46
EPA 6020A	11/08/10		05/13/10	10:11	5/18/2010 12:42
EPA 7470A	06/09/10		05/14/10	10:27	5/14/2010 16:35
EPA 8081B	05/19/10	06/23/10	05/14/10	15:15	5/17/2010 16:21
EPA 8260B	05/26/10		05/14/10	13:18	5/15/2010 08:09

Client ID: 9209-MW34	Lab ID: C005241-16	Sampled: 05/12/10 09:20	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/08/10		05/13/10	10:07	5/14/2010 11:48
EPA 6020A	11/08/10		05/13/10	10:11	5/18/2010 12:46
EPA 7470A	06/09/10		05/14/10	10:27	5/14/2010 16:38
EPA 8260B	05/26/10		05/14/10	13:18	5/15/2010 08:37

Client ID: 9209-MW34d	Lab ID: C005241-17	Sampled: 05/11/10 10:00	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/07/10		05/13/10	10:07	5/14/2010 11:51
EPA 6020A	11/07/10		05/13/10	10:11	5/18/2010 12:49
EPA 7470A	06/08/10		05/14/10	10:27	5/14/2010 16:55
EPA 8260B	05/25/10		05/14/10	13:18	5/15/2010 09:06
EPA 8270D	05/18/10	06/26/10	05/17/10	08:41	5/17/2010 19:59

Client ID: 9209-MW35	Lab ID: C005241-18	Sampled: 05/12/10 09:35	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/08/10		05/13/10	10:07	5/14/2010 11:53
EPA 6020A	11/08/10		05/13/10	10:11	5/18/2010 12:53
EPA 7470A	06/09/10		05/14/10	10:27	5/14/2010 16:58
EPA 8260B	05/26/10		05/14/10	13:18	5/15/2010 09:38

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Client ID: 9209-MW36	Lab ID: C005241-19	Sampled: 05/12/10 13:20	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	06/09/10			05/17/10	06:41	5/17/2010	19:32
EPA 310.2	05/26/10			05/17/10	08:36	5/17/2010	09:28
EPA 353.2	05/14/10	13:20		05/14/10	06:44	5/14/2010	07:49
EPA 353.2	06/09/10			05/13/10	11:32	5/13/2010	13:33
EPA 353.2	06/09/10			05/14/10	10:37	5/14/2010	10:37
EPA 6010C	11/08/10			05/13/10	10:07	5/14/2010	11:56
EPA 6020A	11/08/10			05/13/10	10:11	5/18/2010	12:56
EPA 7470A	06/09/10			05/14/10	10:27	5/14/2010	17:01
EPA 8081B	05/19/10		06/23/10	05/14/10	15:15	5/17/2010	16:34
EPA 8260B	05/26/10			05/14/10	13:18	5/15/2010	10:09
EPA 8270D	05/19/10		06/26/10	05/17/10	08:41	5/17/2010	20:26
RSK 175	05/26/10			05/24/10	08:45	5/24/2010	11:04
SM 5210B	05/14/10	13:20		05/13/10	15:40	5/13/2010	15:40
SM 5220D	06/09/10			05/13/10	12:47	5/13/2010	16:56
SM18 4500-S D	05/19/10			05/17/10	11:36	5/17/2010	11:54
SM18 5310B	06/09/10			05/24/10	14:06	5/24/2010	14:40
Volatile Fatty Acids	05/26/10			05/19/10	08:59	5/19/2010	23:14

Client ID: 9209-TripBlank	Lab ID: C005241-20	Sampled: 05/11/10 10:00	Received: 05/13/10 08:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B	05/25/10	05/14/10	13:18	5/15/2010	04:19

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 9209-MW5R **Lab ID: C005241-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.57	J	1	0.050	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	2.1		1	0.10	1.0	1	ug/L	EPA 8260B	
Barium - Total	96.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Carbon dioxide	169000		1	780	2500	NE	ug/L	RSK 175	
Chloride	4800	J	1	18	5000	NE	ug/L	EPA 300.0	
Chromium - Total	2.85	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	0.53	J	1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1.17	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Methane	1		1	0.2	1	NE	ug/L	RSK 175	
Nickel - Total	3.11	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	540	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	550		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	10	J	1	5.6	100	1000	ug/L	EPA 353.2	
Sulfate as SO4	9700	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Organic Carbon	2.6		1	0.32	1.0	NE	mg/L	SM18 5310B	
Zinc - Total	6.29	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW5R **Lab ID: C005241-01RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Total Alkalinity	150000	D	2	16000	30000	NE	ug/L	EPA 310.2	

Client ID: 9209-MW6 **Lab ID: C005241-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.95	J	1	0.050	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	2.8		1	0.10	1.0	1	ug/L	EPA 8260B	
Acetone	6.5	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Antimony - Total	0.286	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	575		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.3		1	0.050	1.0	1	ug/L	EPA 8260B	
Cadmium - Total	2.03		1	0.360	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	130000		1	2800	10000	NE	ug/L	SM 5220D	
Chlorobenzene	2.8	J	1	0.069	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.7	J	1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	80.0		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.44	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.10	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methane	918		1	0.2	1	NE	ug/L	RSK 175	
Nickel - Total	15.8	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	4.88	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Silver - Total	3.26	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	15000	J	1	120	5000	250000	ug/L	EPA 300.0	
Thallium - Total	0.259	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Organic Carbon	30		1	0.32	1.0	NE	mg/L	SM18 5310B	
Vinyl chloride	3.0		1	0.083	1.0	1	ug/L	EPA 8260B	
Zinc - Total	5.33	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW6 **Lab ID: C005241-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	543000	D	10	7800	25000	NE	ug/L	RSK 175	

Client ID: 9209-MW6 **Lab ID: C005241-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	210000	D	4	72	20000	NE	ug/L	EPA 300.0	

Client ID: 9209-MW6 **Lab ID: C005241-02RE2**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Total Alkalinity	610000	D	3.98	32000	60000	NE	ug/L	EPA 310.2	

Client ID: 9209-MW6d **Lab ID: C005241-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	6.2		1	0.050	1.0	5	ug/L	EPA 8260B	
Antimony - Total	0.619	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	77.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	0.92	J	1	0.083	1.0	5	ug/L	EPA 8260B	
Chromium - Total	3.06	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	1.1	J	1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	2.35	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.50	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	1.9	J	1	0.091	1.0	5	ug/L	EPA 8260B	
Methylene chloride	0.81	J	1	0.070	1.0	1	ug/L	EPA 8260B	
Nickel - Total	2.40	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrachloroethene	0.70	J	1	0.099	1.0	1	ug/L	EPA 8260B	
Trichloroethene	0.77	J	1	0.13	1.0	1	ug/L	EPA 8260B	
Trichlorofluoromethane	0.79	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	4.15	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	10.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW8 **Lab ID: C005241-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.0	J	1	0.050	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	0.40	J	1	0.10	1.0	1	ug/L	EPA 8260B	
Barium - Total	32.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Carbon dioxide	127000		1	780	2500	NE	ug/L	RSK 175	
Chemical Oxygen Demand	9600	J	1	2800	10000	NE	ug/L	SM 5220D	
Chloride	7900		1	18	5000	NE	ug/L	EPA 300.0	
Chromium - Total	1.24	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	19		1	0.075	1.0	5	ug/L	EPA 8260B	
Methane	497		1	0.2	1	NE	ug/L	RSK 175	
Methylene chloride	0.78	J	1	0.070	1.0	1	ug/L	EPA 8260B	
Nitrate as N	660	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	660		1	25	100	NE	ug/L	EPA 353.2	
Sulfate as SO4	2200	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Alkalinity	73000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	1.3		1	0.32	1.0	NE	mg/L	SM18 5310B	
Vanadium - Total	1.42	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.84	J	1	0.083	1.0	1	ug/L	EPA 8260B	
Zinc - Total	4.80	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW9 **Lab ID: C005241-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	23		1	0.050	1.0	5	ug/L	EPA 8260B	
1,2-Dichloroethane	0.91	J	1	0.082	1.0	1	ug/L	EPA 8260B	
1,2-Dichloropropane	1.1		1	0.098	1.0	1	ug/L	EPA 8260B	

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Client ID: 9209-MW9								Lab ID: C005241-05	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,4-Dichlorobenzene	9.5		1	0.10	1.0	1	ug/L	EPA 8260B	
Barium - Total	227		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.276	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	66000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	27000		1	18	5000	NE	ug/L	EPA 300.0	
cis-1,2-Dichloroethene	6.7		1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	6.27	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Ethene	1	J	1	0.4	2	NE	ug/L	RSK 175	
Ethylbenzene	2.4		1	0.10	1.0	1	ug/L	EPA 8260B	
Lead - Total	4.59	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methane	1150		1	0.2	1	NE	ug/L	RSK 175	
Naphthalene	1.0	J	1	0.086	1.0	10	ug/L	EPA 8260B	
Nitrate as N	76	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	76	J	1	25	100	NE	ug/L	EPA 353.2	
Propionic Acid	2900		1	180	500	NE	ug/L	Volatile Fatty Acids	
Selenium - Total	0.936	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Silver - Total	2.42	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	2200	J	1	120	5000	250000	ug/L	EPA 300.0	
Toluene	0.62	J	1	0.053	1.0	1	ug/L	EPA 8260B	
Total Organic Carbon	8.4		1	0.32	1.0	NE	mg/L	SM18 5310B	
Vinyl chloride	41		1	0.083	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	2.0	J	1	0.22	1.0	5	ug/L	EPA 8260B	
Zinc - Total	17.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW9								Lab ID: C005241-05RE1	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Carbon dioxide	307000	D	10	7800	25000	NE	ug/L	RSK 175	
Total Alkalinity	200000	D	2	16000	30000	NE	ug/L	EPA 310.2	

Client ID: 9209-MW10								Lab ID: C005241-06	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,1-Dichloroethane	1.7	J	1	0.050	1.0	5	ug/L	EPA 8260B	
Barium - Total	23.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.66	J	1	0.050	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.147	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Biochemical Oxygen Demand	3200		1	2000	2000	NE	ug/L	SM 5210B	
Chemical Oxygen Demand	25000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	5600		1	18	5000	NE	ug/L	EPA 300.0	
cis-1,2-Dichloroethene	26		1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	4.51	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Methane	1830		1	0.2	1	NE	ug/L	RSK 175	
Nickel - Total	4.31	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	1700	J	1	120	5000	250000	ug/L	EPA 300.0	
Tetrachloroethene	0.74	J	1	0.099	1.0	1	ug/L	EPA 8260B	
Total Alkalinity	140000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	5.5		1	0.32	1.0	NE	mg/L	SM18 5310B	
Trichloroethene	0.71	J	1	0.13	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	1.2		1	0.083	1.0	1	ug/L	EPA 8260B	
Zinc - Total	12.9		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW10 **Lab ID: C005241-06RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	407000	D	10	7800	25000	NE	ug/L	RSK 175	

Client ID: 9209-MW11 **Lab ID: C005241-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	62.1	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Carbon dioxide	83100		1	780	2500	NE	ug/L	RSK 175	
Chemical Oxygen Demand	23000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	4200	J	1	18	5000	NE	ug/L	EPA 300.0	
Chromium - Total	1.45	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.92	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Methane	4		1	0.2	1	NE	ug/L	RSK 175	
Nitrate as N	89	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	89	J	1	25	100	NE	ug/L	EPA 353.2	
Sulfate as SO4	3800	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Alkalinity	27000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	2.2		1	0.32	1.0	NE	mg/L	SM18 5310B	
Vanadium - Total	2.67	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-MW22 **Lab ID: C005241-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	30.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	2.23		1	0.360	1.00	1	ug/L	EPA 6010C	
Chloroform	0.83	J	1	0.083	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	19.2		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	5.88	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Zinc - Total	21.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW30 **Lab ID: C005241-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	4.72	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	774		1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	1.25		1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	239		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	64.5		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	373		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	34.2		1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	114		1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	1.08	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	253		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	254		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW31 **Lab ID: C005241-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	3.31	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	70.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.182	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloroform	4.9	J	1	0.083	1.0	5	ug/L	EPA 8260B	
Chromium - Total	32.4		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	2.22	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	17.1		1	1.60	10.0	10	ug/L	EPA 6010C	

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Client ID: 9209-MW31 **Lab ID: C005241-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Lead - Total	9.41	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	4.63	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	33.5		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	27.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW31d **Lab ID: C005241-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.468	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	3.16	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	17.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.371	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chloroform	31		1	0.083	1.0	5	ug/L	EPA 8260B	
Chromium - Total	8.36	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.74	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	7.97	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	17.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW32 **Lab ID: C005241-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	11.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	1.34	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	4.70	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	6.82	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.52	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	19.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-TB1a **Lab ID: C005241-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	76.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	1.49		1	0.360	1.00	1	ug/L	EPA 6010C	
Chloroform	1.3	J	1	0.083	1.0	5	ug/L	EPA 8260B	
Chromium - Total	9.71	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	7.78	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	55.4		1	1.60	10.0	10	ug/L	EPA 6010C	
Mercury - Total	0.339		1	0.170	0.200	0.2	ug/L	EPA 7470A	
Nickel - Total	7.66	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	25.8		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	27.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-TB1ad **Lab ID: C005241-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.553	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	13.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	37		1	0.083	1.0	5	ug/L	EPA 8260B	
Chromium - Total	19.5		1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.25	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.51	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	1.07	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	8.23	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	22.4		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW33 **Lab ID: C005241-15**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	100		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	44.7		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	14.4		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	30.0		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	3.13	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	16.5	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	68.1		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	90.9		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW34 **Lab ID: C005241-16**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	16		1	0.050	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.2		1	0.10	1.0	1	ug/L	EPA 8260B	
Arsenic - Total	4.96	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	393		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.64	J	1	0.050	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	1.63		1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.500	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chloroethane	1.4	J	1	0.18	1.0	10	ug/L	EPA 8260B	
Chloroform	0.70	J	1	0.083	1.0	5	ug/L	EPA 8260B	
Chromium - Total	47.5		1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	8.7		1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	14.5		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	63.2		1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	2.1	J	1	0.091	1.0	5	ug/L	EPA 8260B	
Lead - Total	13.0		1	1.90	10.0	10	ug/L	EPA 6010C	
Mercury - Total	0.246		1	0.170	0.200	0.2	ug/L	EPA 7470A	
Methylene chloride	6.0		1	0.070	1.0	1	ug/L	EPA 8260B	
Nickel - Total	31.3	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrachloroethene	1.7		1	0.099	1.0	1	ug/L	EPA 8260B	
Thallium - Total	0.127	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Trichloroethene	2.9		1	0.13	1.0	1	ug/L	EPA 8260B	
Trichlorofluoromethane	0.96	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	99.6		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	129		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW34d **Lab ID: C005241-17**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	3.3	J	1	0.050	1.0	5	ug/L	EPA 8260B	
Barium - Total	23.1	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.396	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	8.78	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	1.7	J	1	0.075	1.0	5	ug/L	EPA 8260B	
Copper - Total	13.5		1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	0.41	J	1	0.091	1.0	5	ug/L	EPA 8260B	
Trichloroethene	0.59	J	1	0.13	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	1.52	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	20.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW35 **Lab ID: C005241-18**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes

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Client ID: 9209-MW35								Lab ID: C005241-18	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	109		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.648	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	16.2		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	9.60	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	22.7		1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	0.57	J	1	0.091	1.0	5	ug/L	EPA 8260B	
Lead - Total	3.21	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	8.98	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	42.9		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	44.9		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW36								Lab ID: C005241-19	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,1-Dichloroethane	17		1	0.050	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.4		1	0.10	1.0	1	ug/L	EPA 8260B	
Barium - Total	96.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.56	J	1	0.050	1.0	1	ug/L	EPA 8260B	
Carbon dioxide	162000		1	780	2500	NE	ug/L	RSK 175	
Chemical Oxygen Demand	36000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	8100		1	18	5000	NE	ug/L	EPA 300.0	
Chloroethane	0.45	J	1	0.18	1.0	10	ug/L	EPA 8260B	
Chromium - Total	18.3		1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	6.5		1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	7.48	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	18.9		1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	1.4	J	1	0.091	1.0	5	ug/L	EPA 8260B	
Methane	3		1	0.2	1	NE	ug/L	RSK 175	
Nickel - Total	7.38	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	2300	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	2400		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	21	J	1	5.6	100	1000	ug/L	EPA 353.2	
Sulfate as SO4	5300	J	1	120	5000	250000	ug/L	EPA 300.0	
Tetrachloroethene	0.86	J	1	0.099	1.0	1	ug/L	EPA 8260B	
Total Alkalinity	74000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	2.9		1	0.32	1.0	NE	mg/L	SM18 5310B	
Trichloroethene	1.8		1	0.13	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	24.0	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.96	J	1	0.083	1.0	1	ug/L	EPA 8260B	
Zinc - Total	23.3		1	3.80	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: C005241-01
Sampled: 05/12/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 21:50	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 21:50	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.57**	J	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 21:50	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 21:50	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 21:50	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 21:50	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 21:50	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 21:50	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 21:50	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**2.1**		ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 21:50	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 21:50	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 21:50	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 21:50	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 21:50	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 21:50	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 21:50	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 21:50	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 21:50	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 21:50	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 21:50	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 21:50	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 21:50	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 21:50	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 21:50	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 21:50	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 21:50	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.53**	J	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 21:50	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 21:50	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 21:50	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 21:50	JKG	

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

Lab Sample ID: C005241-01
Sampled: 05/12/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 21:50	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 21:50	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 21:50	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 21:50	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 21:50	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 21:50	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 21:50	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 21:50	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 21:50	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 21:50	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 21:50	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 21:50	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 21:50	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*51-122*	*0E13033*	*EPA 8260B*	*05/14/10 21:50*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*0E13033*	*EPA 8260B*	*05/14/10 21:50*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0E13033*	*EPA 8260B*	*05/14/10 21:50*	*JKG*	

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

Lab Sample ID: C005241-01
Sampled: 05/12/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 14:34	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 14:34	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/17/10 14:34	JHH	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 14:34	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/17/10 14:34	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 14:34	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/17/10 14:34	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/17/10 14:34	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/17/10 14:34	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/17/10 14:34	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 14:34	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/17/10 14:34	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 14:34	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 14:34	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 14:34	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 14:34	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/17/10 14:34	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 14:34	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 14:34	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/17/10 14:34	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/17/10 14:34	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.47*	*1*	*1.00*	*47 %*	*44-134*	*0E14005*	*EPA 8081B*	*05/17/10 14:34*	*JHH*	
Decachlorobiphenyl	*0.54*	*1*	*1.00*	*54 %*	*37-149*	*0E14005*	*EPA 8081B*	*05/17/10 14:34*	*JHH*	

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

Lab Sample ID: C005241-01
Sampled: 05/12/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/14/10 15:51	NLH	

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

Lab Sample ID: C005241-01
Sampled: 05/12/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/18/10 11:48	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 10:46	JDH	
Barium [7440-39-3] ^	**96.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 10:46	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 10:46	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 10:46	JDH	
Chromium [7440-47-3] ^	**2.85**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 10:46	JDH	
Cobalt [7440-48-4] ^	**1.17**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 10:46	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 10:46	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 10:46	JDH	
Nickel [7440-02-0] ^	**3.11**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 10:46	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 11:48	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 10:46	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 11:48	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 10:46	JDH	
Zinc [7440-66-6] ^	**6.29**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 10:46	JDH	

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

Lab Sample ID: C005241-01
Sampled: 05/12/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/13/10 15:40	JOC	
Chemical Oxygen Demand [ECL-0035] ^	2800	U	ug/L	1	2800	10000	NE	SM 5220D	05/13/10 16:56	JOC	
Chloride [16887-00-6] ^	**4800**	J	ug/L	1	18	5000	NE	EPA 300.0	05/17/10 17:28	PEV	
Nitrate as N [14797-55-8] ^	**540**	J	ug/L	1	25	100	10000	EPA 353.2	05/14/10 10:37	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**550**		ug/L	1	25	100	NE	EPA 353.2	05/13/10 13:18	PEV	
Nitrite as N [14797-65-0] ^	**10**	J	ug/L	1	5.6	100	1000	EPA 353.2	05/14/10 07:38	PEV	
Sulfate as SO4 [14808-79-8] ^	**9700**	J	ug/L	1	120	5000	250000	EPA 300.0	05/17/10 17:28	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	05/17/10 11:54	JOC	
Total Alkalinity [471-34-1] ^	**150000**	D	ug/L	2	16000	30000	NE	EPA 310.2	05/17/10 09:40	PEV	

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**2.6**		mg/L	1	0.32	1.0	NE	SM18 5310B	05/24/10 14:40	RSA	

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

Lab Sample ID: C005241-01
Sampled: 05/12/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**169000**		ug/L	1	780	2500	NE	RSK 175	05/24/10 10:42	LAC	
Ethane [74-84-0]	0.4	U	ug/L	1	0.4	2	NE	RSK 175	05/24/10 10:42	LAC	
Ethene [74-85-1]	0.4	U	ug/L	1	0.4	2	NE	RSK 175	05/24/10 10:42	LAC	
Methane [74-82-8]	**1**		ug/L	1	0.2	1	NE	RSK 175	05/24/10 10:42	LAC	

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

Lab Sample ID: C005241-01
Sampled: 05/12/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	Volatile Fatty Acids	05/19/10 16:58	LAC	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	Volatile Fatty Acids	05/19/10 16:58	LAC	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		Volatile Fatty Acids	05/19/10 16:58	LAC	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		Volatile Fatty Acids	05/19/10 16:58	LAC	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		Volatile Fatty Acids	05/19/10 16:58	LAC	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		Volatile Fatty Acids	05/19/10 16:58	LAC	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	Volatile Fatty Acids	05/19/10 16:58	LAC	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		Volatile Fatty Acids	05/19/10 16:58	LAC	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	Volatile Fatty Acids	05/19/10 16:58	LAC	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	Volatile Fatty Acids	05/19/10 16:58	LAC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*60000*	*1*	*50000*	*120 %*	*80-124*	*0E19004*	*Volatile Fatty Acids*	*05/19/10 16:58*	*LAC*	

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:** C005241-02 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 08:30 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 22:20	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 22:20	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.95**	J	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 22:20	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 22:20	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 22:20	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 22:20	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 22:20	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 22:20	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 22:20	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**2.8**		ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 22:20	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 22:20	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 22:20	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 22:20	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 22:20	JKG	
Acetone [67-64-1] ^	**6.5**	J	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 22:20	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 22:20	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 22:20	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 22:20	JKG	
Benzene [71-43-2] ^	**1.3**		ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 22:20	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 22:20	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 22:20	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 22:20	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
Chlorobenzene [108-90-7] ^	**2.8**	J	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 22:20	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 22:20	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 22:20	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 22:20	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.7**	J	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 22:20	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 22:20	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 22:20	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 22:20	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 22:20	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 22:20	JKG	

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Description: 9209-MW6 | **Lab Sample ID:** C005241-02 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 08:30 | **Work Order:** C005241

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 22:20	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 22:20	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 22:20	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 22:20	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 22:20	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 22:20	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 22:20	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 22:20	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 22:20	JKG	
Vinyl chloride [75-01-4] ^	**3.0**		ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 22:20	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 22:20	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*83 %*	*51-122*	*0E13033*	*EPA 8260B*	*05/14/10 22:20*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*97 %*	*68-117*	*0E13033*	*EPA 8260B*	*05/14/10 22:20*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0E13033*	*EPA 8260B*	*05/14/10 22:20*	*JKG*	

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Description: 9209-MW6 | **Lab Sample ID:** C005241-02 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 08:30 | **Work Order:** C005241

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

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/17/10 17:17	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*35*	*1*	*50.0*	*69 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 17:17*	*DFM*	
Nitrobenzene-d5	*31*	*1*	*50.0*	*61 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 17:17*	*DFM*	
Terphenyl-d14	*43*	*1*	*50.0*	*86 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/17/10 17:17*	*DFM*	

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Description: 9209-MW6 | **Lab Sample ID:** C005241-02 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 08:30 | **Work Order:** C005241

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 14:47	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 14:47	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/17/10 14:47	JHH	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 14:47	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/17/10 14:47	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 14:47	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/17/10 14:47	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/17/10 14:47	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/17/10 14:47	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/17/10 14:47	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 14:47	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/17/10 14:47	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 14:47	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 14:47	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 14:47	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 14:47	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/17/10 14:47	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 14:47	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 14:47	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/17/10 14:47	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/17/10 14:47	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.48*	*1*	*1.00*	*48 %*	*44-134*	*0E14005*	*EPA 8081B*	*05/17/10 14:47*	*JHH*	
Decachlorobiphenyl	*0.44*	*1*	*1.00*	*44 %*	*37-149*	*0E14005*	*EPA 8081B*	*05/17/10 14:47*	*JHH*	

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Description: 9209-MW6 | **Lab Sample ID:** C005241-02 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 08:30 | **Work Order:** C005241

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	05/14/10 15:54	NLH	

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Description: 9209-MW6 | **Lab Sample ID:** C005241-02 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 08:30 | **Work Order:** C005241

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] ^	**0.286**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/18/10 11:52	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 10:59	JDH	
Barium [7440-39-3] ^	**575**		ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 10:59	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 10:59	JDH	
Cadmium [7440-43-9] ^	**2.03**		ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 10:59	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 10:59	JDH	
Cobalt [7440-48-4] ^	**80.0**		ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 10:59	JDH	
Copper [7440-50-8] ^	**3.44**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 10:59	JDH	
Lead [7439-92-1] ^	**2.10**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 10:59	JDH	
Nickel [7440-02-0] ^	**15.8**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 10:59	JDH	
Selenium [7782-49-2] ^	**4.88**	J	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 11:52	VLO	
Silver [7440-22-4] ^	**3.26**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 10:59	JDH	
Thallium [7440-28-0] ^	**0.259**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 11:52	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 10:59	JDH	
Zinc [7440-66-6] ^	**5.33**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 10:59	JDH	

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Description: 9209-MW6 | **Lab Sample ID:** C005241-02 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 08:30 | **Work Order:** C005241

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	05/13/10 15:40	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**130000**		ug/L	1	2800	10000	NE	SM 5220D	05/13/10 16:56	JOC	
Chloride [16887-00-6] ^	**210000**	D	ug/L	4	72	20000	NE	EPA 300.0	05/18/10 07:26	PEV	
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	05/14/10 10:37	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	25	U	ug/L	1	25	100	NE	EPA 353.2	05/13/10 13:24	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	05/14/10 07:40	PEV	
Sulfate as SO4 [14808-79-8] ^	**15000**	J	ug/L	1	120	5000	250000	EPA 300.0	05/17/10 17:48	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	05/17/10 11:54	JOC	
Total Alkalinity [471-34-1] ^	**610000**	D	ug/L	3.98	32000	60000	NE	EPA 310.2	05/17/10 09:51	PEV	

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**30**		mg/L	1	0.32	1.0	NE	SM18 5310B	05/24/10 14:40	RSA	

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**543000**	D	ug/L	10	7800	25000	NE	RSK 175	05/24/10 12:41	LAC	
Ethane [74-84-0]	0.4	U	ug/L	1	0.4	2	NE	RSK 175	05/24/10 10:45	LAC	
Ethene [74-85-1]	0.4	U	ug/L	1	0.4	2	NE	RSK 175	05/24/10 10:45	LAC	
Methane [74-82-8]	**918**		ug/L	1	0.2	1	NE	RSK 175	05/24/10 10:45	LAC	

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Description: 9209-MW6 | **Lab Sample ID:** C005241-02 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 08:30 | **Work Order:** C005241

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

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	Volatile Fatty Acids	05/19/10 18:00	LAC	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	Volatile Fatty Acids	05/19/10 18:00	LAC	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		Volatile Fatty Acids	05/19/10 18:00	LAC	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		Volatile Fatty Acids	05/19/10 18:00	LAC	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		Volatile Fatty Acids	05/19/10 18:00	LAC	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		Volatile Fatty Acids	05/19/10 18:00	LAC	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	Volatile Fatty Acids	05/19/10 18:00	LAC	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		Volatile Fatty Acids	05/19/10 18:00	LAC	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	Volatile Fatty Acids	05/19/10 18:00	LAC	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	Volatile Fatty Acids	05/19/10 18:00	LAC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*58000*	*1*	*50000*	*116 %*	*80-124*	*0E19004*	*Volatile Fatty Acids*	*05/19/10 18:00*	*LAC*	

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Description: 9209-MW6d | **Lab Sample ID:** C005241-03 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 08:00 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 22:49	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 22:49	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
1,1-Dichloroethane [75-34-3] ^	**6.2**		ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 22:49	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 22:49	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 22:49	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 22:49	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 22:49	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 22:49	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 22:49	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 22:49	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 22:49	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 22:49	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 22:49	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 22:49	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 22:49	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 22:49	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 22:49	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 22:49	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 22:49	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 22:49	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 22:49	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 22:49	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 22:49	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 22:49	JKG	
Chloroform [67-66-3] ^	**0.92**	J	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 22:49	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 22:49	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.1**	J	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 22:49	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 22:49	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 22:49	JKG	
Dichlorodifluoromethane [75-71-8] ^	**1.9**	J	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 22:49	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 22:49	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 22:49	JKG	

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

Lab Sample ID: C005241-03
Sampled: 05/12/10 08:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 22:49	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 22:49	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 22:49	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 22:49	JKG	
Methylene chloride [75-09-2] ^	**0.81**	J	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 22:49	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 22:49	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
Tetrachloroethene [127-18-4] ^	**0.70**	J	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 22:49	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 22:49	JKG	
Trichloroethene [79-01-6] ^	**0.77**	J	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
Trichlorofluoromethane [75-69-4] ^	**0.79**	J	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 22:49	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 22:49	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 22:49	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*85 %*	*51-122*	*0E13033*	*EPA 8260B*	*05/14/10 22:49*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*97 %*	*68-117*	*0E13033*	*EPA 8260B*	*05/14/10 22:49*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*69-110*	*0E13033*	*EPA 8260B*	*05/14/10 22:49*	*JKG*	

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

Lab Sample ID: C005241-03
Sampled: 05/12/10 08:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/14/10 15:57	NLH	

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

Lab Sample ID: C005241-03
Sampled: 05/12/10 08:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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] ^	**0.619**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/18/10 11:56	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:02	JDH	
Barium [7440-39-3] ^	**77.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:02	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:02	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:02	JDH	
Chromium [7440-47-3] ^	**3.06**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:02	JDH	
Cobalt [7440-48-4] ^	**2.35**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:02	JDH	
Copper [7440-50-8] ^	**3.50**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:02	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:02	JDH	
Nickel [7440-02-0] ^	**2.40**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:02	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 11:56	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:02	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 11:56	VLO	
Vanadium [7440-62-2] ^	**4.15**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:02	JDH	
Zinc [7440-66-6] ^	**10.3**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:02	JDH	

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Description: 9209-MW8 | **Lab Sample ID:** C005241-04 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 11:00 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 23:19	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 23:19	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
1,1-Dichloroethane [75-34-3] ^	**1.0**	J	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 23:19	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 23:19	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 23:19	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 23:19	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 23:19	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 23:19	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 23:19	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**0.40**	J	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 23:19	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 23:19	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 23:19	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 23:19	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 23:19	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 23:19	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 23:19	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 23:19	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 23:19	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 23:19	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 23:19	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 23:19	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 23:19	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 23:19	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 23:19	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 23:19	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 23:19	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**19**		ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 23:19	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 23:19	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 23:19	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 23:19	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 23:19	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 23:19	JKG	

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Description: 9209-MW8 | **Lab Sample ID:** C005241-04 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 11:00 | **Work Order:** C005241

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 23:19	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 23:19	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 23:19	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 23:19	JKG	
Methylene chloride [75-09-2] ^	**0.78**	J	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 23:19	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 23:19	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 23:19	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 23:19	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 23:19	JKG	
Vinyl chloride [75-01-4] ^	**0.84**	J	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 23:19	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 23:19	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*85 %*	*51-122*	*0E13033*	*EPA 8260B*	*05/14/10 23:19*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*0E13033*	*EPA 8260B*	*05/14/10 23:19*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*69-110*	*0E13033*	*EPA 8260B*	*05/14/10 23:19*	*JKG*	

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

Lab Sample ID: C005241-04
Sampled: 05/12/10 11:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/14/10 16:00	NLH	

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Description: 9209-MW8 | **Lab Sample ID:** C005241-04 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 11:00 | **Work Order:** C005241

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	05/18/10 11:59	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:04	JDH	
Barium [7440-39-3] ^	**32.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:04	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:04	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:04	JDH	
Chromium [7440-47-3] ^	**1.24**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:04	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:04	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:04	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:04	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:04	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 11:59	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:04	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 11:59	VLO	
Vanadium [7440-62-2] ^	**1.42**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:04	JDH	
Zinc [7440-66-6] ^	**4.80**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:04	JDH	

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Description: 9209-MW8 | **Lab Sample ID:** C005241-04 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 11:00 | **Work Order:** C005241

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	05/13/10 15:40	JOC	B-09
Chemical Oxygen Demand [ECL-0035] ^	**9600**	J	ug/L	1	2800	10000	NE	SM 5220D	05/13/10 16:56	JOC	
Chloride [16887-00-6] ^	**7900**		ug/L	1	18	5000	NE	EPA 300.0	05/17/10 18:09	PEV	
Nitrate as N [14797-55-8] ^	**660**	J	ug/L	1	25	100	10000	EPA 353.2	05/14/10 10:37	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**660**		ug/L	1	25	100	NE	EPA 353.2	05/13/10 13:26	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	05/14/10 07:41	PEV	
Sulfate as SO4 [14808-79-8] ^	**2200**	J	ug/L	1	120	5000	250000	EPA 300.0	05/17/10 18:09	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	05/17/10 11:54	JOC	
Total Alkalinity [471-34-1] ^	**73000**		ug/L	1	8000	15000	NE	EPA 310.2	05/17/10 09:23	PEV	

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Description:	9209-MW8	**Lab Sample ID:**	C005241-04	**Received:**	05/13/10 08:15
Matrix:	Ground Water	**Sampled:**	05/12/10 11:00	**Work Order:**	C005241
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**1.3**		mg/L	1	0.32	1.0	NE	SM18 5310B	05/24/10 14:40	RSA	

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

Lab Sample ID: C005241-04
Sampled: 05/12/10 11:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**127000**		ug/L	1	780	2500	NE	RSK 175	05/24/10 10:49	LAC	
Ethane [74-84-0]	0.4	U	ug/L	1	0.4	2	NE	RSK 175	05/24/10 10:49	LAC	
Ethene [74-85-1]	0.4	U	ug/L	1	0.4	2	NE	RSK 175	05/24/10 10:49	LAC	
Methane [74-82-8]	**497**		ug/L	1	0.2	1	NE	RSK 175	05/24/10 10:49	LAC	

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Description: 9209-MW8 | **Lab Sample ID:** C005241-04 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 11:00 | **Work Order:** C005241

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

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	Volatile Fatty Acids	05/19/10 19:03	LAC	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	Volatile Fatty Acids	05/19/10 19:03	LAC	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		Volatile Fatty Acids	05/19/10 19:03	LAC	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		Volatile Fatty Acids	05/19/10 19:03	LAC	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		Volatile Fatty Acids	05/19/10 19:03	LAC	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		Volatile Fatty Acids	05/19/10 19:03	LAC	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	Volatile Fatty Acids	05/19/10 19:03	LAC	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		Volatile Fatty Acids	05/19/10 19:03	LAC	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	Volatile Fatty Acids	05/19/10 19:03	LAC	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	Volatile Fatty Acids	05/19/10 19:03	LAC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*58000*	*1*	*50000*	*116 %*	*80-124*	*0E19004*	*Volatile Fatty Acids*	*05/19/10 19:03*	*LAC*	

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Description: 9209-MW9 | **Lab Sample ID:** C005241-05 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:45 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 23:49	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 23:49	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
1,1-Dichloroethane [75-34-3] ^	**23**		ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 23:49	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 23:49	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 23:49	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 23:49	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 23:49	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 23:49	JKG	
1,2-Dichloroethane [107-06-2] ^	**0.91**	J	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
1,2-Dichloropropane [78-87-5] ^	**1.1**		ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 23:49	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**9.5**		ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 23:49	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 23:49	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 23:49	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 23:49	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 23:49	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 23:49	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 23:49	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 23:49	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 23:49	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 23:49	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 23:49	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 23:49	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 23:49	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 23:49	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 23:49	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 23:49	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 23:49	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**6.7**		ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 23:49	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 23:49	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 23:49	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 23:49	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 23:49	JKG	
Ethylbenzene [100-41-4] ^	**2.4**		ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 23:49	JKG	

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Description: 9209-MW9 | **Lab Sample ID:** C005241-05 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:45 | **Work Order:** C005241

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 23:49	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 23:49	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 23:49	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 23:49	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
Naphthalene [91-20-3] ^	**1.0**	J	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 23:49	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 23:49	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
Toluene [108-88-3] ^	**0.62**	J	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 23:49	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 23:49	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 23:49	JKG	
Vinyl chloride [75-01-4] ^	**41**		ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 23:49	JKG	
Xylenes (Total) [1330-20-7] ^	**2.0**	J	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 23:49	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*51-122*	*0E13033*	*EPA 8260B*	*05/14/10 23:49*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*0E13033*	*EPA 8260B*	*05/14/10 23:49*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*69-110*	*0E13033*	*EPA 8260B*	*05/14/10 23:49*	*JKG*	

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Description: 9209-MW9 | **Lab Sample ID:** C005241-05 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:45 | **Work Order:** C005241

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

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/17/10 17:44	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*41*	*1*	*50.0*	*82 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 17:44*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*79 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 17:44*	*DFM*	
Terphenyl-d14	*46*	*1*	*50.0*	*93 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/17/10 17:44*	*DFM*	

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Description: 9209-MW9 | **Lab Sample ID:** C005241-05 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:45 | **Work Order:** C005241

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 15:01	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:01	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/17/10 15:01	JHH	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:01	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/17/10 15:01	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:01	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/17/10 15:01	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/17/10 15:01	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/17/10 15:01	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/17/10 15:01	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 15:01	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/17/10 15:01	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:01	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:01	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 15:01	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:01	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/17/10 15:01	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:01	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 15:01	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/17/10 15:01	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/17/10 15:01	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.80*	*1*	*1.00*	*80 %*	*44-134*	*0E14005*	*EPA 8081B*	*05/17/10 15:01*	*JHH*	
Decachlorobiphenyl	*0.40*	*1*	*1.00*	*40 %*	*37-149*	*0E14005*	*EPA 8081B*	*05/17/10 15:01*	*JHH*	

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Description: 9209-MW9 | **Lab Sample ID:** C005241-05 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:45 | **Work Order:** C005241

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	05/14/10 15:17	NLH	

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Description: 9209-MW9 | **Lab Sample ID:** C005241-05 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:45 | **Work Order:** C005241

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	05/18/10 11:23	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:14	JDH	
Barium [7440-39-3] ^	**227**		ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:14	JDH	
Beryllium [7440-41-7] ^	**0.276**	J	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:14	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:14	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:14	JDH	
Cobalt [7440-48-4] ^	**6.27**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:14	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:14	JDH	
Lead [7439-92-1] ^	**4.59**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:14	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:14	JDH	
Selenium [7782-49-2] ^	**0.936**	J	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 11:23	VLO	
Silver [7440-22-4] ^	**2.42**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:14	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 11:23	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:14	JDH	
Zinc [7440-66-6] ^	**17.6**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:14	JDH	

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Description: 9209-MW9 | **Lab Sample ID:** C005241-05 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:45 | **Work Order:** C005241

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	05/13/10 15:40	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**66000**		ug/L	1	2800	10000	NE	SM 5220D	05/13/10 16:56	JOC	
Chloride [16887-00-6] ^	**27000**		ug/L	1	18	5000	NE	EPA 300.0	05/17/10 18:30	PEV	
Nitrate as N [14797-55-8] ^	**76**	J	ug/L	1	25	100	10000	EPA 353.2	05/14/10 10:37	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**76**	J	ug/L	1	25	100	NE	EPA 353.2	05/13/10 13:29	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	05/14/10 07:42	PEV	
Sulfate as SO4 [14808-79-8] ^	**2200**	J	ug/L	1	120	5000	250000	EPA 300.0	05/17/10 18:30	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	05/17/10 11:54	JOC	
Total Alkalinity [471-34-1] ^	**200000**	D	ug/L	2	16000	30000	NE	EPA 310.2	05/17/10 09:41	PEV	

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**8.4**		mg/L	1	0.32	1.0	NE	SM18 5310B	05/24/10 14:40	RSA	

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**307000**	D	ug/L	10	7800	25000	NE	RSK 175	05/24/10 12:45	LAC	
Ethane [74-84-0]	0.4	U	ug/L	1	0.4	2	NE	RSK 175	05/24/10 10:53	LAC	
Ethene [74-85-1]	**1**	J	ug/L	1	0.4	2	NE	RSK 175	05/24/10 10:53	LAC	
Methane [74-82-8]	**1150**		ug/L	1	0.2	1	NE	RSK 175	05/24/10 10:53	LAC	

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Description: 9209-MW9 | **Lab Sample ID:** C005241-05 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:45 | **Work Order:** C005241

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

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	Volatile Fatty Acids	05/19/10 20:06	LAC	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	Volatile Fatty Acids	05/19/10 20:06	LAC	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		Volatile Fatty Acids	05/19/10 20:06	LAC	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		Volatile Fatty Acids	05/19/10 20:06	LAC	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		Volatile Fatty Acids	05/19/10 20:06	LAC	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		Volatile Fatty Acids	05/19/10 20:06	LAC	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	Volatile Fatty Acids	05/19/10 20:06	LAC	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		Volatile Fatty Acids	05/19/10 20:06	LAC	
Propionic Acid [79-09-4]	**2900**		ug/L	1	180	500	NE	Volatile Fatty Acids	05/19/10 20:06	LAC	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	Volatile Fatty Acids	05/19/10 20:06	LAC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*58000*	*1*	*50000*	*116 %*	*80-124*	*0E19004*	*Volatile Fatty Acids*	*05/19/10 20:06*	*LAC*	

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:** C005241-06 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:10 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 00:19	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 00:19	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
1,1-Dichloroethane [75-34-3] ^	**1.7**	J	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 00:19	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 00:19	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 00:19	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 00:19	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 00:19	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 00:19	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 00:19	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 00:19	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 00:19	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 00:19	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 00:19	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 00:19	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 00:19	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 00:19	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 00:19	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 00:19	JKG	
Benzene [71-43-2] ^	**0.66**	J	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 00:19	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 00:19	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 00:19	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 00:19	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 00:19	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 00:19	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 00:19	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 00:19	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**26**		ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 00:19	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 00:19	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 00:19	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 00:19	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 00:19	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 00:19	JKG	

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Description: 9209-MW10 | **Lab Sample ID:** C005241-06 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:10 | **Work Order:** C005241

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 00:19	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 00:19	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 00:19	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 00:19	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 00:19	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 00:19	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
Tetrachloroethene [127-18-4] ^	**0.74**	J	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 00:19	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 00:19	JKG	
Trichloroethene [79-01-6] ^	**0.71**	J	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 00:19	JKG	
Vinyl chloride [75-01-4] ^	**1.2**		ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 00:19	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 00:19	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*83 %*	*51-122*	*0E13033*	*EPA 8260B*	*05/15/10 00:19*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*99 %*	*68-117*	*0E13033*	*EPA 8260B*	*05/15/10 00:19*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*85 %*	*69-110*	*0E13033*	*EPA 8260B*	*05/15/10 00:19*	*JKG*	

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Description: 9209-MW10 | **Lab Sample ID:** C005241-06 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:10 | **Work Order:** C005241

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

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/17/10 18:11	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*35*	*1*	*50.0*	*71 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 18:11*	*DFM*	
Nitrobenzene-d5	*33*	*1*	*50.0*	*65 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 18:11*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*91 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/17/10 18:11*	*DFM*	

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

Lab Sample ID: C005241-06
Sampled: 05/12/10 12:10
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/14/10 16:02	NLH	

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Description: 9209-MW10 | **Lab Sample ID:** C005241-06 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:10 | **Work Order:** C005241

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	05/18/10 12:03	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:17	JDH	
Barium [7440-39-3] ^	**23.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:17	JDH	
Beryllium [7440-41-7] ^	**0.147**	J	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:17	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:17	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:17	JDH	
Cobalt [7440-48-4] ^	**4.51**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:17	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:17	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:17	JDH	
Nickel [7440-02-0] ^	**4.31**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:17	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:03	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:17	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:03	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:17	JDH	
Zinc [7440-66-6] ^	**12.9**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:17	JDH	

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

Lab Sample ID: C005241-06
Sampled: 05/12/10 12:10
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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] ^	**3200**		ug/L	1	2000	2000	NE	SM 5210B	05/13/10 15:40	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**25000**		ug/L	1	2800	10000	NE	SM 5220D	05/13/10 16:56	JOC	
Chloride [16887-00-6] ^	**5600**		ug/L	1	18	5000	NE	EPA 300.0	05/17/10 18:50	PEV	
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	05/14/10 10:37	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	25	U	ug/L	1	25	100	NE	EPA 353.2	05/13/10 13:30	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	05/14/10 07:46	PEV	
Sulfate as SO4 [14808-79-8] ^	**1700**	J	ug/L	1	120	5000	250000	EPA 300.0	05/17/10 18:50	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	05/17/10 11:54	JOC	
Total Alkalinity [471-34-1] ^	**140000**		ug/L	1	8000	15000	NE	EPA 310.2	05/17/10 09:25	PEV	

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Description: 9209-MW10 | **Lab Sample ID:** C005241-06 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:10 | **Work Order:** C005241

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

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**5.5**		mg/L	1	0.32	1.0	NE	SM18 5310B	05/24/10 14:40	RSA	

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**407000**	D	ug/L	10	7800	25000	NE	RSK 175	05/24/10 12:48	LAC	
Ethane [74-84-0]	0.4	U	ug/L	1	0.4	2	NE	RSK 175	05/24/10 10:57	LAC	
Ethene [74-85-1]	0.4	U	ug/L	1	0.4	2	NE	RSK 175	05/24/10 10:57	LAC	
Methane [74-82-8]	**1830**		ug/L	1	0.2	1	NE	RSK 175	05/24/10 10:57	LAC	

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Description: 9209-MW10 | **Lab Sample ID:** C005241-06 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 12:10 | **Work Order:** C005241

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

Volatile Fatty Acids by HPLC

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

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*61000*	*1*	*50000*	*121 %*	*80-124*	*0E19004*	*Volatile Fatty Acids*	*05/19/10 21:09*	*LAC*	

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:** C005241-07 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:00 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 16:15	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 16:15	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 16:15	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 16:15	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 16:15	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 16:15	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 16:15	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 16:15	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 16:15	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 16:15	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 16:15	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 16:15	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 16:15	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 16:15	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 16:15	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 16:15	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 16:15	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 16:15	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 16:15	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 16:15	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 16:15	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 16:15	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 16:15	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 16:15	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 16:15	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 16:15	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 16:15	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 16:15	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 16:15	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 16:15	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 16:15	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 16:15	JKG	

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Description: 9209-MW11 | **Lab Sample ID:** C005241-07 | **Received:** 05/13/10 08:15
Matrix: Ground Water | **Sampled:** 05/12/10 14:00 | **Work Order:** C005241
Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 16:15	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 16:15	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 16:15	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 16:15	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 16:15	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 16:15	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 16:15	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 16:15	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 16:15	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 16:15	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 16:15	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*51-122*	*0E15001*	*EPA 8260B*	*05/15/10 16:15*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*0E15001*	*EPA 8260B*	*05/15/10 16:15*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*69-110*	*0E15001*	*EPA 8260B*	*05/15/10 16:15*	*JKG*	

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/17/10 18:38	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*35*	*1*	*50.0*	*71 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 18:38*	*DFM*	
Nitrobenzene-d5	*34*	*1*	*50.0*	*69 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 18:38*	*DFM*	
Terphenyl-d14	*44*	*1*	*50.0*	*89 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/17/10 18:38*	*DFM*	

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Description: 9209-MW11 | **Lab Sample ID:** C005241-07 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:00 | **Work Order:** C005241

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 15:14	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:14	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/17/10 15:14	JHH	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:14	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/17/10 15:14	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:14	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/17/10 15:14	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/17/10 15:14	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/17/10 15:14	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/17/10 15:14	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 15:14	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/17/10 15:14	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:14	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:14	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 15:14	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:14	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/17/10 15:14	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:14	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 15:14	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/17/10 15:14	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/17/10 15:14	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.54*	*1*	*1.00*	*54 %*	*44-134*	*0E14005*	*EPA 8081B*	*05/17/10 15:14*	*JHH*	
Decachlorobiphenyl	*0.58*	*1*	*1.00*	*58 %*	*37-149*	*0E14005*	*EPA 8081B*	*05/17/10 15:14*	*JHH*	

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

Lab Sample ID: C005241-07
Sampled: 05/12/10 14:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/14/10 16:12	NLH	

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Description: 9209-MW11 | **Lab Sample ID:** C005241-07 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:00 | **Work Order:** C005241

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	05/18/10 12:06	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:19	JDH	
Barium [7440-39-3] ^	**62.1**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:19	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:19	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:19	JDH	
Chromium [7440-47-3] ^	**1.45**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:19	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:19	JDH	
Copper [7440-50-8] ^	**1.92**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:19	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:19	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:19	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:06	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:19	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:06	VLO	
Vanadium [7440-62-2] ^	**2.67**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:19	JDH	
Zinc [7440-66-6] ^	**12.6**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:19	JDH	

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

Lab Sample ID: C005241-07
Sampled: 05/12/10 14:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/13/10 15:40	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**23000**		ug/L	1	2800	10000	NE	SM 5220D	05/13/10 16:56	JOC	
Chloride [16887-00-6] ^	**4200**	J	ug/L	1	18	5000	NE	EPA 300.0	05/17/10 19:11	PEV	
Nitrate as N [14797-55-8] ^	**89**	J	ug/L	1	25	100	10000	EPA 353.2	05/14/10 10:37	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**89**	J	ug/L	1	25	100	NE	EPA 353.2	05/13/10 13:32	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	05/14/10 07:48	PEV	
Sulfate as SO4 [14808-79-8] ^	**3800**	J	ug/L	1	120	5000	250000	EPA 300.0	05/17/10 19:11	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	05/17/10 11:54	JOC	
Total Alkalinity [471-34-1] ^	**27000**		ug/L	1	8000	15000	NE	EPA 310.2	05/17/10 09:26	PEV	

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Description: 9209-MW11 | **Lab Sample ID:** C005241-07 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:00 | **Work Order:** C005241

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

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.053	U	ug/L	1	0.053	0.50	2	EPA 8151A	05/24/10 16:44	RGG	Q
2,4,5-TP (Silvex) [93-72-1]	0.056	U	ug/L	1	0.056	0.50	2	EPA 8151A	05/24/10 16:44	RGG	Q
2,4-D [94-75-7]	0.091	U	ug/L	1	0.091	0.50	2	EPA 8151A	05/24/10 16:44	RGG	Q
Dinoseb [88-85-7]	0.28	U	ug/L	1	0.28	0.50	1	EPA 8151A	05/24/10 16:44	RGG	Q
Pentachlorophenol [87-86-5] ^	0.043	U	ug/L	1	0.043	0.50	25	EPA 8151A	05/24/10 16:44	RGG	Q

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.2*	*1*	*2.00*	*109 %*	*68-139*	*0E20038*	*EPA 8151A*	*05/24/10 16:44*	*RGG*	

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

Lab Sample ID: C005241-07
Sampled: 05/12/10 14:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**2.2**		mg/L	1	0.32	1.0	NE	SM18 5310B	05/24/10 14:40	RSA	

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

Lab Sample ID: C005241-07
Sampled: 05/12/10 14:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**83100**		ug/L	1	780	2500	NE	RSK 175	05/24/10 11:00	LAC	
Ethane [74-84-0]	0.4	U	ug/L	1	0.4	2	NE	RSK 175	05/24/10 11:00	LAC	
Ethene [74-85-1]	0.4	U	ug/L	1	0.4	2	NE	RSK 175	05/24/10 11:00	LAC	
Methane [74-82-8]	**4**		ug/L	1	0.2	1	NE	RSK 175	05/24/10 11:00	LAC	

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Description: 9209-MW11 | **Lab Sample ID:** C005241-07 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:00 | **Work Order:** C005241

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

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	Volatile Fatty Acids	05/19/10 22:11	LAC	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	Volatile Fatty Acids	05/19/10 22:11	LAC	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		Volatile Fatty Acids	05/19/10 22:11	LAC	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		Volatile Fatty Acids	05/19/10 22:11	LAC	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		Volatile Fatty Acids	05/19/10 22:11	LAC	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		Volatile Fatty Acids	05/19/10 22:11	LAC	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	Volatile Fatty Acids	05/19/10 22:11	LAC	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		Volatile Fatty Acids	05/19/10 22:11	LAC	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	Volatile Fatty Acids	05/19/10 22:11	LAC	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	Volatile Fatty Acids	05/19/10 22:11	LAC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*58000*	*1*	*50000*	*116 %*	*80-124*	*0E19004*	*Volatile Fatty Acids*	*05/19/10 22:11*	*LAC*	

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:** C005241-08 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 07:00 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 04:48	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 04:48	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 04:48	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 04:48	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 04:48	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 04:48	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 04:48	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 04:48	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 04:48	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 04:48	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 04:48	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 04:48	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 04:48	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 04:48	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 04:48	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 04:48	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 04:48	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 04:48	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 04:48	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 04:48	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 04:48	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 04:48	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 04:48	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 04:48	JKG	
Chloroform [67-66-3] ^	**0.83**	J	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 04:48	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 04:48	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 04:48	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 04:48	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 04:48	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 04:48	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 04:48	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 04:48	JKG	

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Description: 9209-MW22 | **Lab Sample ID:** C005241-08 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 07:00 | **Work Order:** C005241

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 04:48	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 04:48	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 04:48	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 04:48	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 04:48	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 04:48	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 04:48	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 04:48	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 04:48	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 04:48	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 04:48	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0E14023*	*EPA 8260B*	*05/15/10 04:48*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*0E14023*	*EPA 8260B*	*05/15/10 04:48*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14023*	*EPA 8260B*	*05/15/10 04:48*	*JKG*	

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Description: 9209-MW22 | **Lab Sample ID:** C005241-08 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 07:00 | **Work Order:** C005241

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

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/17/10 19:05	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*33*	*1*	*50.0*	*66 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 19:05*	*DFM*	
Nitrobenzene-d5	*31*	*1*	*50.0*	*61 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 19:05*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*91 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/17/10 19:05*	*DFM*	

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Description: 9209-MW22 | **Lab Sample ID:** C005241-08 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 07:00 | **Work Order:** C005241

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 15:28	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:28	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/17/10 15:28	JHH	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:28	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/17/10 15:28	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:28	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/17/10 15:28	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/17/10 15:28	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/17/10 15:28	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/17/10 15:28	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 15:28	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/17/10 15:28	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:28	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:28	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 15:28	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:28	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/17/10 15:28	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:28	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 15:28	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/17/10 15:28	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/17/10 15:28	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.46*	*1*	*1.00*	*46 %*	*44-134*	*0E14005*	*EPA 8081B*	*05/17/10 15:28*	*JHH*	
Decachlorobiphenyl	*0.48*	*1*	*1.00*	*48 %*	*37-149*	*0E14005*	*EPA 8081B*	*05/17/10 15:28*	*JHH*	

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Description: 9209-MW22 | **Lab Sample ID:** C005241-08 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 07:00 | **Work Order:** C005241

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	05/14/10 16:15	NLH	

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Description: 9209-MW22 | **Lab Sample ID:** C005241-08 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 07:00 | **Work Order:** C005241

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	05/18/10 12:10	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:21	JDH	
Barium [7440-39-3] ^	**30.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:21	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:21	JDH	
Cadmium [7440-43-9] ^	**2.23**		ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:21	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:21	JDH	
Cobalt [7440-48-4] ^	**19.2**		ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:21	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:21	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:21	JDH	
Nickel [7440-02-0] ^	**5.88**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:21	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:10	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:21	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:10	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:21	JDH	
Zinc [7440-66-6] ^	**21.5**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:21	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-MW30 | **Lab Sample ID:** C005241-09 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:55 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 05:17	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 05:17	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 05:17	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 05:17	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 05:17	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 05:17	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 05:17	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 05:17	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 05:17	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 05:17	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 05:17	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 05:17	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 05:17	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 05:17	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 05:17	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 05:17	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 05:17	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 05:17	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 05:17	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 05:17	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 05:17	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 05:17	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 05:17	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 05:17	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 05:17	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 05:17	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 05:17	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 05:17	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 05:17	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 05:17	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 05:17	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 05:17	JKG	

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Description: 9209-MW30 | **Lab Sample ID:** C005241-09 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:55 | **Work Order:** C005241

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 05:17	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 05:17	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 05:17	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 05:17	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 05:17	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 05:17	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 05:17	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 05:17	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 05:17	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 05:17	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 05:17	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*0E14023*	*EPA 8260B*	*05/15/10 05:17*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*0E14023*	*EPA 8260B*	*05/15/10 05:17*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14023*	*EPA 8260B*	*05/15/10 05:17*	*JKG*	

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Description: 9209-MW30 | **Lab Sample ID:** C005241-09 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:55 | **Work Order:** C005241

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 15:41	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:41	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/17/10 15:41	JHH	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:41	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/17/10 15:41	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:41	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/17/10 15:41	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/17/10 15:41	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/17/10 15:41	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/17/10 15:41	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 15:41	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/17/10 15:41	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:41	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:41	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 15:41	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:41	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/17/10 15:41	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:41	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 15:41	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/17/10 15:41	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/17/10 15:41	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.52*	*1*	*1.00*	*52 %*	*44-134*	*0E14005*	*EPA 8081B*	*05/17/10 15:41*	*JHH*	
Decachlorobiphenyl	*0.42*	*1*	*1.00*	*42 %*	*37-149*	*0E14005*	*EPA 8081B*	*05/17/10 15:41*	*JHH*	

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

Lab Sample ID: C005241-09
Sampled: 05/12/10 14:55
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/14/10 16:18	NLH	

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Description: 9209-MW30 | **Lab Sample ID:** C005241-09 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:55 | **Work Order:** C005241

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	05/18/10 12:13	VLO	
Arsenic [7440-38-2] ^	**4.72**	J	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:24	JDH	
Barium [7440-39-3] ^	**774**		ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:24	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:24	JDH	
Cadmium [7440-43-9] ^	**1.25**		ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:24	JDH	
Chromium [7440-47-3] ^	**239**		ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:24	JDH	
Cobalt [7440-48-4] ^	**64.5**		ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:24	JDH	
Copper [7440-50-8] ^	**373**		ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:24	JDH	
Lead [7439-92-1] ^	**34.2**		ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:24	JDH	
Nickel [7440-02-0] ^	**114**		ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:24	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:13	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:24	JDH	
Thallium [7440-28-0] ^	**1.08**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:13	VLO	
Vanadium [7440-62-2] ^	**253**		ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:24	JDH	
Zinc [7440-66-6] ^	**254**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:24	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:** C005241-10 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:30 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 05:45	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 05:45	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 05:45	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 05:45	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 05:45	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 05:45	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 05:45	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 05:45	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 05:45	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 05:45	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 05:45	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 05:45	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 05:45	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 05:45	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 05:45	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 05:45	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 05:45	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 05:45	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 05:45	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 05:45	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 05:45	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 05:45	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 05:45	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 05:45	JKG	
Chloroform [67-66-3] ^	**4.9**	J	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 05:45	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 05:45	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 05:45	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 05:45	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 05:45	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 05:45	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 05:45	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 05:45	JKG	

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Description: 9209-MW31 | **Lab Sample ID:** C005241-10 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:30 | **Work Order:** C005241

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 05:45	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 05:45	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 05:45	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 05:45	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 05:45	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 05:45	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 05:45	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 05:45	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 05:45	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 05:45	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 05:45	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*51-122*	*0E14023*	*EPA 8260B*	*05/15/10 05:45*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*101 %*	*68-117*	*0E14023*	*EPA 8260B*	*05/15/10 05:45*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14023*	*EPA 8260B*	*05/15/10 05:45*	*JKG*	

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Description: 9209-MW31 | **Lab Sample ID:** C005241-10 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:30 | **Work Order:** C005241

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 15:54	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:54	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/17/10 15:54	JHH	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:54	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/17/10 15:54	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:54	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/17/10 15:54	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/17/10 15:54	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/17/10 15:54	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/17/10 15:54	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 15:54	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/17/10 15:54	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:54	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:54	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 15:54	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 15:54	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/17/10 15:54	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 15:54	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 15:54	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/17/10 15:54	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/17/10 15:54	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.49*	*1*	*1.00*	*49 %*	*44-134*	*0E14005*	*EPA 8081B*	*05/17/10 15:54*	*JHH*	
Decachlorobiphenyl	*0.70*	*1*	*1.00*	*70 %*	*37-149*	*0E14005*	*EPA 8081B*	*05/17/10 15:54*	*JHH*	

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

Lab Sample ID: C005241-10
Sampled: 05/12/10 14:30
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/14/10 16:21	NLH	

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Description: 9209-MW31 | **Lab Sample ID:** C005241-10 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:30 | **Work Order:** C005241

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	05/18/10 12:24	VLO	
Arsenic [7440-38-2] ^	**3.31**	J	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:26	JDH	
Barium [7440-39-3] ^	**70.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:26	JDH	
Beryllium [7440-41-7] ^	**0.182**	J	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:26	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:26	JDH	
Chromium [7440-47-3] ^	**32.4**		ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:26	JDH	
Cobalt [7440-48-4] ^	**2.22**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:26	JDH	
Copper [7440-50-8] ^	**17.1**		ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:26	JDH	
Lead [7439-92-1] ^	**9.41**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:26	JDH	
Nickel [7440-02-0] ^	**4.63**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:26	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:24	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:26	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:24	VLO	
Vanadium [7440-62-2] ^	**33.5**		ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:26	JDH	
Zinc [7440-66-6] ^	**27.1**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:26	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 | **Lab Sample ID:** C005241-11 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/11/10 12:35 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 06:14	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 06:14	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 06:14	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 06:14	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 06:14	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 06:14	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 06:14	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 06:14	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 06:14	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 06:14	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 06:14	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 06:14	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 06:14	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 06:14	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 06:14	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 06:14	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 06:14	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 06:14	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 06:14	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 06:14	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 06:14	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 06:14	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 06:14	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 06:14	JKG	
Chloroform [67-66-3] ^	**31**		ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 06:14	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 06:14	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 06:14	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 06:14	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 06:14	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 06:14	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 06:14	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 06:14	JKG	

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

Lab Sample ID: C005241-11
Sampled: 05/11/10 12:35
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 06:14	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 06:14	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 06:14	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 06:14	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 06:14	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 06:14	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 06:14	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 06:14	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 06:14	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 06:14	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 06:14	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0E14023*	*EPA 8260B*	*05/15/10 06:14*	*JKG*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*0E14023*	*EPA 8260B*	*05/15/10 06:14*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14023*	*EPA 8260B*	*05/15/10 06:14*	*JKG*	

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

Lab Sample ID: C005241-11
Sampled: 05/11/10 12:35
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/17/10 19:32	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*34*	*1*	*50.0*	*69 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 19:32*	*DFM*	
Nitrobenzene-d5	*30*	*1*	*50.0*	*60 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 19:32*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*89 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/17/10 19:32*	*DFM*	

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

Lab Sample ID: C005241-11
Sampled: 05/11/10 12:35
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/14/10 16:24	NLH	

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

Lab Sample ID: C005241-11
Sampled: 05/11/10 12:35
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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] ^	**0.468**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/18/10 12:28	VLO	
Arsenic [7440-38-2] ^	**3.16**	J	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:28	JDH	
Barium [7440-39-3] ^	**17.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:28	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:28	JDH	
Cadmium [7440-43-9] ^	**0.371**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:28	JDH	
Chromium [7440-47-3] ^	**8.36**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:28	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:28	JDH	
Copper [7440-50-8] ^	**1.74**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:28	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:28	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:28	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:28	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:28	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:28	VLO	
Vanadium [7440-62-2] ^	**7.97**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:28	JDH	
Zinc [7440-66-6] ^	**17.7**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:28	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-MW32 | **Lab Sample ID:** C005241-12 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 15:15 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 06:43	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 06:43	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 06:43	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 06:43	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 06:43	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 06:43	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 06:43	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 06:43	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 06:43	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 06:43	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 06:43	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 06:43	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 06:43	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 06:43	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 06:43	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 06:43	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 06:43	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 06:43	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 06:43	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 06:43	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 06:43	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 06:43	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 06:43	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 06:43	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 06:43	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 06:43	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 06:43	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 06:43	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 06:43	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 06:43	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 06:43	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 06:43	JKG	

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Description: 9209-MW32 | **Lab Sample ID:** C005241-12 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 15:15 | **Work Order:** C005241

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 06:43	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 06:43	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 06:43	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 06:43	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 06:43	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 06:43	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 06:43	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 06:43	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 06:43	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 06:43	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 06:43	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0E14023*	*EPA 8260B*	*05/15/10 06:43*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*0E14023*	*EPA 8260B*	*05/15/10 06:43*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14023*	*EPA 8260B*	*05/15/10 06:43*	*JKG*	

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

Lab Sample ID: C005241-12
Sampled: 05/12/10 15:15
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/14/10 16:26	NLH	

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Description: 9209-MW32 | **Lab Sample ID:** C005241-12 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 15:15 | **Work Order:** C005241

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	05/18/10 12:32	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:31	JDH	
Barium [7440-39-3] ^	**11.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:31	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:31	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:31	JDH	
Chromium [7440-47-3] ^	**1.34**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:31	JDH	
Cobalt [7440-48-4] ^	**4.70**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:31	JDH	
Copper [7440-50-8] ^	**6.82**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:31	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:31	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:31	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:32	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:31	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:32	VLO	
Vanadium [7440-62-2] ^	**3.52**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:31	JDH	
Zinc [7440-66-6] ^	**19.1**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:31	JDH	

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

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Description: 9209-TB1a | **Lab Sample ID:** C005241-13 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 14:40 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 07:11	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 07:11	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 07:11	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 07:11	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 07:11	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 07:11	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 07:11	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 07:11	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 07:11	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 07:11	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 07:11	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 07:11	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 07:11	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 07:11	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 07:11	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 07:11	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 07:11	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 07:11	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 07:11	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 07:11	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 07:11	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 07:11	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 07:11	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 07:11	JKG	
Chloroform [67-66-3] ^	**1.3**	J	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 07:11	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 07:11	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 07:11	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 07:11	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 07:11	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 07:11	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 07:11	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 07:11	JKG	

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

Lab Sample ID: C005241-13
Sampled: 05/12/10 14:40
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 07:11	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 07:11	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 07:11	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 07:11	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 07:11	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 07:11	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 07:11	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 07:11	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 07:11	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 07:11	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 07:11	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*0E14023*	*EPA 8260B*	*05/15/10 07:11*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*68-117*	*0E14023*	*EPA 8260B*	*05/15/10 07:11*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*0E14023*	*EPA 8260B*	*05/15/10 07:11*	*JKG*	

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

Lab Sample ID: C005241-13
Sampled: 05/12/10 14:40
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 16:07	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 16:07	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/17/10 16:07	JHH	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 16:07	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/17/10 16:07	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 16:07	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/17/10 16:07	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/17/10 16:07	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/17/10 16:07	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/17/10 16:07	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 16:07	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/17/10 16:07	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 16:07	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 16:07	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 16:07	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 16:07	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/17/10 16:07	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 16:07	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 16:07	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/17/10 16:07	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/17/10 16:07	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.46*	*1*	*1.00*	*46 %*	*44-134*	*0E14005*	*EPA 8081B*	*05/17/10 16:07*	*JHH*	
Decachlorobiphenyl	*0.40*	*1*	*1.00*	*40 %*	*37-149*	*0E14005*	*EPA 8081B*	*05/17/10 16:07*	*JHH*	

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Description:	9209-TB1a	**Lab Sample ID:**	C005241-13	**Received:**	05/13/10 08:15
Matrix:	Ground Water	**Sampled:**	05/12/10 14:40	**Work Order:**	C005241
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] ^	**0.339**		ug/L	1	0.170	0.200	0.2	EPA 7470A	05/14/10 16:30	NLH	

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

Lab Sample ID: C005241-13
Sampled: 05/12/10 14:40
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/18/10 12:35	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:33	JDH	
Barium [7440-39-3] ^	**76.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:33	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:33	JDH	
Cadmium [7440-43-9] ^	**1.49**		ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:33	JDH	
Chromium [7440-47-3] ^	**9.71**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:33	JDH	
Cobalt [7440-48-4] ^	**7.78**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:33	JDH	
Copper [7440-50-8] ^	**55.4**		ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:33	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:33	JDH	
Nickel [7440-02-0] ^	**7.66**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:33	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:35	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:33	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:35	VLO	
Vanadium [7440-62-2] ^	**25.8**		ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:33	JDH	
Zinc [7440-66-6] ^	**27.7**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:33	JDH	

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

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

Lab Sample ID: C005241-14
Sampled: 05/11/10 13:25
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 07:40	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 07:40	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 07:40	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 07:40	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 07:40	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 07:40	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 07:40	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 07:40	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 07:40	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 07:40	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 07:40	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 07:40	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 07:40	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 07:40	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 07:40	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 07:40	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 07:40	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 07:40	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 07:40	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 07:40	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 07:40	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 07:40	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 07:40	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 07:40	JKG	
Chloroform [67-66-3] ^	**37**		ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 07:40	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 07:40	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 07:40	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 07:40	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 07:40	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 07:40	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 07:40	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 07:40	JKG	

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

Lab Sample ID: C005241-14
Sampled: 05/11/10 13:25
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 07:40	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 07:40	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 07:40	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 07:40	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 07:40	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 07:40	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 07:40	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 07:40	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 07:40	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 07:40	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 07:40	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0E14023*	*EPA 8260B*	*05/15/10 07:40*	*JKG*	
Dibromofluoromethane	*53*	*1*	*50.0*	*105 %*	*68-117*	*0E14023*	*EPA 8260B*	*05/15/10 07:40*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*0E14023*	*EPA 8260B*	*05/15/10 07:40*	*JKG*	

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

Lab Sample ID: C005241-14
Sampled: 05/11/10 13:25
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/14/10 16:33	NLH	

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

Lab Sample ID: C005241-14
Sampled: 05/11/10 13:25
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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] ^	**0.553**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/18/10 12:39	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:36	JDH	
Barium [7440-39-3] ^	**13.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:36	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:36	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:36	JDH	
Chromium [7440-47-3] ^	**19.5**		ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:36	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:36	JDH	
Copper [7440-50-8] ^	**3.25**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:36	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:36	JDH	
Nickel [7440-02-0] ^	**3.51**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:36	JDH	
Selenium [7782-49-2] ^	**1.07**	J	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:39	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:36	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:39	VLO	
Vanadium [7440-62-2] ^	**8.23**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:36	JDH	
Zinc [7440-66-6] ^	**22.4**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:36	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:** C005241-15 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 10:40 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 08:09	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 08:09	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 08:09	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 08:09	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 08:09	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 08:09	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 08:09	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 08:09	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 08:09	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 08:09	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 08:09	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 08:09	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 08:09	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 08:09	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 08:09	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 08:09	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 08:09	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 08:09	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 08:09	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 08:09	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 08:09	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 08:09	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 08:09	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 08:09	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 08:09	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 08:09	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 08:09	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 08:09	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 08:09	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 08:09	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 08:09	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 08:09	JKG	

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Description: 9209-MW33 | **Lab Sample ID:** C005241-15 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 10:40 | **Work Order:** C005241

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 08:09	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 08:09	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 08:09	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 08:09	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 08:09	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 08:09	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 08:09	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 08:09	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 08:09	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 08:09	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 08:09	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*0E14023*	*EPA 8260B*	*05/15/10 08:09*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*0E14023*	*EPA 8260B*	*05/15/10 08:09*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*0E14023*	*EPA 8260B*	*05/15/10 08:09*	*JKG*	

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Description: 9209-MW33 | **Lab Sample ID:** C005241-15 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 10:40 | **Work Order:** C005241

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 16:21	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 16:21	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/17/10 16:21	JHH	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 16:21	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/17/10 16:21	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 16:21	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/17/10 16:21	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/17/10 16:21	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/17/10 16:21	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/17/10 16:21	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 16:21	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/17/10 16:21	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 16:21	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 16:21	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 16:21	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 16:21	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/17/10 16:21	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 16:21	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 16:21	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/17/10 16:21	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/17/10 16:21	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.50*	*1*	*1.00*	*50 %*	*44-134*	*0E14005*	*EPA 8081B*	*05/17/10 16:21*	*JHH*	
Decachlorobiphenyl	*0.61*	*1*	*1.00*	*61 %*	*37-149*	*0E14005*	*EPA 8081B*	*05/17/10 16:21*	*JHH*	

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Description:	9209-MW33	**Lab Sample ID:**	C005241-15	**Received:**	05/13/10 08:15
Matrix:	Ground Water	**Sampled:**	05/12/10 10:40	**Work Order:**	C005241
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	05/14/10 16:35	NLH	

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Description: 9209-MW33 | **Lab Sample ID:** C005241-15 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 10:40 | **Work Order:** C005241

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	05/18/10 12:42	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:46	JDH	
Barium [7440-39-3] ^	**100**		ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:46	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:46	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:46	JDH	
Chromium [7440-47-3] ^	**44.7**		ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:46	JDH	
Cobalt [7440-48-4] ^	**14.4**		ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:46	JDH	
Copper [7440-50-8] ^	**30.0**		ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:46	JDH	
Lead [7439-92-1] ^	**3.13**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:46	JDH	
Nickel [7440-02-0] ^	**16.5**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:46	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:42	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:46	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:42	VLO	
Vanadium [7440-62-2] ^	**68.1**		ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:46	JDH	
Zinc [7440-66-6] ^	**90.9**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:46	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:** C005241-16 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 09:20 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 08:37	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 08:37	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
1,1-Dichloroethane [75-34-3] ^	**16**		ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 08:37	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 08:37	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 08:37	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 08:37	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 08:37	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 08:37	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 08:37	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**1.2**		ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 08:37	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 08:37	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 08:37	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 08:37	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 08:37	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 08:37	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 08:37	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 08:37	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 08:37	JKG	
Benzene [71-43-2] ^	**0.64**	J	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 08:37	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 08:37	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 08:37	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 08:37	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 08:37	JKG	
Chloroethane [75-00-3] ^	**1.4**	J	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 08:37	JKG	
Chloroform [67-66-3] ^	**0.70**	J	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 08:37	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 08:37	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**8.7**		ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 08:37	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 08:37	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 08:37	JKG	
Dichlorodifluoromethane [75-71-8] ^	**2.1**	J	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 08:37	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 08:37	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 08:37	JKG	

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Description: 9209-MW34 | **Lab Sample ID:** C005241-16 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 09:20 | **Work Order:** C005241

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 08:37	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 08:37	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 08:37	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 08:37	JKG	
Methylene chloride [75-09-2] ^	**6.0**		ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 08:37	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 08:37	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
Tetrachloroethene [127-18-4] ^	**1.7**		ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 08:37	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 08:37	JKG	
Trichloroethene [79-01-6] ^	**2.9**		ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
Trichlorofluoromethane [75-69-4] ^	**0.96**	J	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 08:37	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 08:37	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 08:37	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0E14023*	*EPA 8260B*	*05/15/10 08:37*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*0E14023*	*EPA 8260B*	*05/15/10 08:37*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14023*	*EPA 8260B*	*05/15/10 08:37*	*JKG*	

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Description:	9209-MW34	**Lab Sample ID:**	C005241-16	**Received:**	05/13/10 08:15
Matrix:	Ground Water	**Sampled:**	05/12/10 09:20	**Work Order:**	C005241
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] ^	**0.246**		ug/L	1	0.170	0.200	0.2	EPA 7470A	05/14/10 16:38	NLH	

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Description: 9209-MW34 | **Lab Sample ID:** C005241-16 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 09:20 | **Work Order:** C005241

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	05/18/10 12:46	VLO	
Arsenic [7440-38-2] ^	**4.96**	J	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:48	JDH	
Barium [7440-39-3] ^	**393**		ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:48	JDH	
Beryllium [7440-41-7] ^	**1.63**		ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:48	JDH	
Cadmium [7440-43-9] ^	**0.500**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:48	JDH	
Chromium [7440-47-3] ^	**47.5**		ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:48	JDH	
Cobalt [7440-48-4] ^	**14.5**		ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:48	JDH	
Copper [7440-50-8] ^	**63.2**		ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:48	JDH	
Lead [7439-92-1] ^	**13.0**		ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:48	JDH	
Nickel [7440-02-0] ^	**31.3**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:48	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:46	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:48	JDH	
Thallium [7440-28-0] ^	**0.127**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:46	VLO	
Vanadium [7440-62-2] ^	**99.6**		ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:48	JDH	
Zinc [7440-66-6] ^	**129**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:48	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 | **Lab Sample ID:** C005241-17 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/11/10 10:00 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 09:06	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 09:06	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
1,1-Dichloroethane [75-34-3] ^	**3.3**	J	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 09:06	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 09:06	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 09:06	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 09:06	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 09:06	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 09:06	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 09:06	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 09:06	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 09:06	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 09:06	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 09:06	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 09:06	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 09:06	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 09:06	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 09:06	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 09:06	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 09:06	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 09:06	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 09:06	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 09:06	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 09:06	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 09:06	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 09:06	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 09:06	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.7**	J	ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 09:06	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 09:06	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 09:06	JKG	
Dichlorodifluoromethane [75-71-8] ^	**0.41**	J	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 09:06	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 09:06	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 09:06	JKG	

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Description: 9209-MW34d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005241-17
Sampled: 05/11/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 09:06	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 09:06	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 09:06	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 09:06	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 09:06	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 09:06	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 09:06	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 09:06	JKG	
Trichloroethene [79-01-6] ^	**0.59**	J	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 09:06	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 09:06	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 09:06	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0E14023*	*EPA 8260B*	*05/15/10 09:06*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*0E14023*	*EPA 8260B*	*05/15/10 09:06*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14023*	*EPA 8260B*	*05/15/10 09:06*	*JKG*	

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Description: 9209-MW34d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005241-17
Sampled: 05/11/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/17/10 19:59	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*33*	*1*	*50.0*	*66 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 19:59*	*DFM*	
Nitrobenzene-d5	*31*	*1*	*50.0*	*61 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 19:59*	*DFM*	
Terphenyl-d14	*44*	*1*	*50.0*	*88 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/17/10 19:59*	*DFM*	

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Description: 9209-MW34d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005241-17
Sampled: 05/11/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/14/10 16:55	NLH	

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Description: 9209-MW34d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005241-17
Sampled: 05/11/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/18/10 12:49	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:51	JDH	
Barium [7440-39-3] ^	**23.1**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:51	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:51	JDH	
Cadmium [7440-43-9] ^	**0.396**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:51	JDH	
Chromium [7440-47-3] ^	**8.78**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:51	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:51	JDH	
Copper [7440-50-8] ^	**13.5**		ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:51	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:51	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:51	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:49	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:51	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:49	VLO	
Vanadium [7440-62-2] ^	**1.52**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:51	JDH	
Zinc [7440-66-6] ^	**20.3**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:51	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:** C005241-18 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 09:35 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 09:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 09:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 09:38	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 09:38	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 09:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 09:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 09:38	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 09:38	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 09:38	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 09:38	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 09:38	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 09:38	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 09:38	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 09:38	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 09:38	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 09:38	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 09:38	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 09:38	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 09:38	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 09:38	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 09:38	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 09:38	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 09:38	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 09:38	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 09:38	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 09:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 09:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 09:38	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 09:38	JKG	
Dichlorodifluoromethane [75-71-8] ^	**0.57**	J	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 09:38	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 09:38	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 09:38	JKG	

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Description: 9209-MW35 | **Lab Sample ID:** C005241-18 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 09:35 | **Work Order:** C005241

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 09:38	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 09:38	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 09:38	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 09:38	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 09:38	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 09:38	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 09:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 09:38	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 09:38	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 09:38	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 09:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0E14023*	*EPA 8260B*	*05/15/10 09:38*	*JKG*	
Dibromofluoromethane	*53*	*1*	*50.0*	*105 %*	*68-117*	*0E14023*	*EPA 8260B*	*05/15/10 09:38*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*0E14023*	*EPA 8260B*	*05/15/10 09:38*	*JKG*	

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Description: 9209-MW35 | **Lab Sample ID:** C005241-18 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 09:35 | **Work Order:** C005241

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	05/14/10 16:58	NLH	

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Description: 9209-MW35 | **Lab Sample ID:** C005241-18 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 09:35 | **Work Order:** C005241

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	05/18/10 12:53	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:53	JDH	
Barium [7440-39-3] ^	**109**		ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:53	JDH	
Beryllium [7440-41-7] ^	**0.648**	J	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:53	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:53	JDH	
Chromium [7440-47-3] ^	**16.2**		ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:53	JDH	
Cobalt [7440-48-4] ^	**9.60**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:53	JDH	
Copper [7440-50-8] ^	**22.7**		ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:53	JDH	
Lead [7439-92-1] ^	**3.21**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:53	JDH	
Nickel [7440-02-0] ^	**8.98**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:53	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:53	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:53	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:53	VLO	
Vanadium [7440-62-2] ^	**42.9**		ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:53	JDH	
Zinc [7440-66-6] ^	**44.9**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:53	JDH	

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

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Description: 9209-MW36 | **Lab Sample ID:** C005241-19 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 13:20 | **Work Order:** C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 10:09	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 10:09	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
1,1-Dichloroethane [75-34-3] ^	**17**		ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 10:09	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 10:09	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 10:09	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 10:09	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 10:09	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 10:09	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 10:09	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**1.4**		ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 10:09	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 10:09	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 10:09	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 10:09	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 10:09	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 10:09	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 10:09	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 10:09	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 10:09	JKG	
Benzene [71-43-2] ^	**0.56**	J	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 10:09	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 10:09	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 10:09	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 10:09	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 10:09	JKG	
Chloroethane [75-00-3] ^	**0.45**	J	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 10:09	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 10:09	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 10:09	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**6.5**		ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 10:09	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 10:09	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 10:09	JKG	
Dichlorodifluoromethane [75-71-8] ^	**1.4**	J	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 10:09	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 10:09	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 10:09	JKG	

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Description: 9209-MW36 | **Lab Sample ID:** C005241-19 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 13:20 | **Work Order:** C005241

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 10:09	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 10:09	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 10:09	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 10:09	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 10:09	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 10:09	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
Tetrachloroethene [127-18-4] ^	**0.86**	J	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 10:09	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 10:09	JKG	
Trichloroethene [79-01-6] ^	**1.8**		ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 10:09	JKG	
Vinyl chloride [75-01-4] ^	**0.96**	J	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 10:09	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 10:09	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*0E14023*	*EPA 8260B*	*05/15/10 10:09*	*JKG*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*0E14023*	*EPA 8260B*	*05/15/10 10:09*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14023*	*EPA 8260B*	*05/15/10 10:09*	*JKG*	

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Description: 9209-MW36 | **Lab Sample ID:** C005241-19 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 13:20 | **Work Order:** C005241

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

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/17/10 20:26	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*36*	*1*	*50.0*	*73 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 20:26*	*DFM*	
Nitrobenzene-d5	*36*	*1*	*50.0*	*71 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 20:26*	*DFM*	
Terphenyl-d14	*43*	*1*	*50.0*	*86 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/17/10 20:26*	*DFM*	

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Description: 9209-MW36 | **Lab Sample ID:** C005241-19 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 13:20 | **Work Order:** C005241

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 16:34	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 16:34	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/17/10 16:34	JHH	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 16:34	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/17/10 16:34	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 16:34	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/17/10 16:34	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/17/10 16:34	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/17/10 16:34	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/17/10 16:34	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 16:34	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/17/10 16:34	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 16:34	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 16:34	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/17/10 16:34	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/17/10 16:34	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/17/10 16:34	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/17/10 16:34	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/17/10 16:34	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/17/10 16:34	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/17/10 16:34	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.62*	*1*	*1.00*	*62 %*	*44-134*	*0E14005*	*EPA 8081B*	*05/17/10 16:34*	*JHH*	
Decachlorobiphenyl	*0.62*	*1*	*1.00*	*62 %*	*37-149*	*0E14005*	*EPA 8081B*	*05/17/10 16:34*	*JHH*	

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

Lab Sample ID: C005241-19
Sampled: 05/12/10 13:20
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/14/10 17:01	NLH	

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Description: 9209-MW36 | **Lab Sample ID:** C005241-19 | **Received:** 05/13/10 08:15

Matrix: Ground Water | **Sampled:** 05/12/10 13:20 | **Work Order:** C005241

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	05/18/10 12:56	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 11:56	JDH	
Barium [7440-39-3] ^	**96.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 11:56	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 11:56	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 11:56	JDH	
Chromium [7440-47-3] ^	**18.3**		ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 11:56	JDH	
Cobalt [7440-48-4] ^	**7.48**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 11:56	JDH	
Copper [7440-50-8] ^	**18.9**		ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 11:56	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:56	JDH	
Nickel [7440-02-0] ^	**7.38**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 11:56	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 12:56	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 11:56	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 12:56	VLO	
Vanadium [7440-62-2] ^	**24.0**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 11:56	JDH	
Zinc [7440-66-6] ^	**23.3**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 11:56	JDH	

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

Lab Sample ID: C005241-19
Sampled: 05/12/10 13:20
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

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	05/13/10 15:40	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**36000**		ug/L	1	2800	10000	NE	SM 5220D	05/13/10 16:56	JOC	
Chloride [16887-00-6] ^	**8100**		ug/L	1	18	5000	NE	EPA 300.0	05/17/10 19:32	PEV	
Nitrate as N [14797-55-8] ^	**2300**	J	ug/L	1	25	100	10000	EPA 353.2	05/14/10 10:37	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**2400**		ug/L	1	25	100	NE	EPA 353.2	05/13/10 13:33	PEV	
Nitrite as N [14797-65-0] ^	**21**	J	ug/L	1	5.6	100	1000	EPA 353.2	05/14/10 07:49	PEV	
Sulfate as SO4 [14808-79-8] ^	**5300**	J	ug/L	1	120	5000	250000	EPA 300.0	05/17/10 19:32	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	05/17/10 11:54	JOC	
Total Alkalinity [471-34-1] ^	**74000**		ug/L	1	8000	15000	NE	EPA 310.2	05/17/10 09:28	PEV	

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

Lab Sample ID: C005241-19
Sampled: 05/12/10 13:20
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**2.9**		mg/L	1	0.32	1.0	NE	SM18 5310B	05/24/10 14:40	RSA	

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

Lab Sample ID: C005241-19
Sampled: 05/12/10 13:20
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**162000**		ug/L	1	780	2500	NE	RSK 175	05/24/10 11:04	LAC	
Ethane [74-84-0]	0.4	U	ug/L	1	0.4	2	NE	RSK 175	05/24/10 11:04	LAC	
Ethene [74-85-1]	0.4	U	ug/L	1	0.4	2	NE	RSK 175	05/24/10 11:04	LAC	
Methane [74-82-8]	**3**		ug/L	1	0.2	1	NE	RSK 175	05/24/10 11:04	LAC	

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

Lab Sample ID: C005241-19
Sampled: 05/12/10 13:20
Sampled By: Aaron Weispfenning

Received: 05/13/10 08:15
Work Order: C005241

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	Volatile Fatty Acids	05/19/10 23:14	LAC	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	Volatile Fatty Acids	05/19/10 23:14	LAC	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		Volatile Fatty Acids	05/19/10 23:14	LAC	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		Volatile Fatty Acids	05/19/10 23:14	LAC	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		Volatile Fatty Acids	05/19/10 23:14	LAC	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		Volatile Fatty Acids	05/19/10 23:14	LAC	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	Volatile Fatty Acids	05/19/10 23:14	LAC	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		Volatile Fatty Acids	05/19/10 23:14	LAC	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	Volatile Fatty Acids	05/19/10 23:14	LAC	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	Volatile Fatty Acids	05/19/10 23:14	LAC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*57000*	*1*	*50000*	*115 %*	*80-124*	*0E19004*	*Volatile Fatty Acids*	*05/19/10 23:14*	*LAC*	

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: C005241-20
Sampled: 05/11/10 10:00
Sampled By: ENCO

Received: 05/13/10 08:15
Work Order: C005241

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 04:19	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 04:19	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 04:19	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 04:19	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 04:19	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 04:19	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 04:19	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 04:19	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 04:19	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 04:19	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 04:19	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 04:19	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 04:19	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 04:19	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 04:19	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 04:19	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 04:19	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 04:19	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 04:19	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 04:19	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 04:19	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 04:19	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 04:19	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 04:19	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 04:19	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 04:19	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 04:19	JKG	

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

Lab Sample ID: C005241-20
Sampled: 05/11/10 10:00
Sampled By: ENCO

Received: 05/13/10 08:15
Work Order: C005241

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] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 04:19	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*51-122*	*0E14023*	*EPA 8260B*	*05/15/10 04:19*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*0E14023*	*EPA 8260B*	*05/15/10 04:19*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14023*	*EPA 8260B*	*05/15/10 04:19*	*JKG*	

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 0E13033 - EPA 5030B_MS

Blank (0E13033-BLK1) Prepared: 05/13/2010 13:23 Analyzed: 05/14/2010 14:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,1-Dichloropropene	0.063	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.097	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,3-Dichlorobenzene	0.092	U	1.0	ug/L							
1,3-Dichloropropane	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2,2-Dichloropropane	0.12	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
3-Chloropropene	0.28	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acetonitrile	2.8	U	10	ug/L							
Acrolein	3.0	U	10	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
Chloroprene	0.24	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Dichlorodifluoromethane	0.091	U	1.0	ug/L							
Ethyl Methacrylate	0.32	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Hexachlorobutadiene	0.15	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Isobutyl alcohol	14	U	50	ug/L							
Methacrylonitrile	2.8	U	10	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E13033 - EPA 5030B_MS

Blank (0E13033-BLK1) Continued Prepared: 05/13/2010 13:23 Analyzed: 05/14/2010 14:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl Methacrylate	0.53	U	1.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Naphthalene	0.086	U	1.0	ug/L							
Propionitrile	4.8	U	10	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*85*	*69-110*			

LCS (0E13033-BS1) Prepared: 05/13/2010 13:23 Analyzed: 05/14/2010 15:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		122	75-133			
Benzene	24		1.0	ug/L	20.0		120	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	20		1.0	ug/L	20.0		98	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	75-115			
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*88*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

Matrix Spike (0E13033-MS1) Prepared: 05/13/2010 13:23 Analyzed: 05/14/2010 15:47

Source: C005662-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.15 U	124	75-133			
Benzene	24		1.0	ug/L	20.0	0.050 U	120	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	101	83-117			
Toluene	20		1.0	ug/L	20.0	0.053 U	102	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	98	75-115			
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*87*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*95*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

Matrix Spike Dup (0E13033-MSD1) Prepared: 05/13/2010 13:23 Analyzed: 05/14/2010 16:17

Source: C005662-09

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E13033 - EPA 5030B_MS

Matrix Spike Dup (0E13033-MSD1) Continued Prepared: 05/13/2010 13:23 Analyzed: 05/14/2010 16:17

Source: C005662-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.15 U	121	75-133	3	20	
Benzene	24		1.0	ug/L	20.0	0.050 U	118	81-134	1	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	100	83-117	1	16	
Toluene	20		1.0	ug/L	20.0	0.053 U	100	71-118	2	17	
Trichloroethene	19		1.0	ug/L	20.0	0.13 U	97	75-115	1	18	
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*87*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*95*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*69-110*			

Batch 0E14023 - EPA 5030B_MS

Blank (0E14023-BLK1) Prepared: 05/14/2010 13:18 Analyzed: 05/15/2010 01:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,1-Dichloropropene	0.063	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.097	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,3-Dichlorobenzene	0.092	U	1.0	ug/L							
1,3-Dichloropropane	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2,2-Dichloropropane	0.12	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
3-Chloropropene	0.28	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acetonitrile	2.8	U	10	ug/L							
Acrolein	3.0	U	10	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E14023 - EPA 5030B_MS

Blank (0E14023-BLK1) Continued Prepared: 05/14/2010 13:18 Analyzed: 05/15/2010 01:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
Chloroprene	0.24	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Dichlorodifluoromethane	0.091	U	1.0	ug/L							
Ethyl Methacrylate	0.32	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Hexachlorobutadiene	0.15	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Isobutyl alcohol	14	U	50	ug/L							
Methacrylonitrile	2.8	U	10	ug/L							
Methyl Methacrylate	0.53	U	1.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Naphthalene	0.086	U	1.0	ug/L							
Propionitrile	4.8	U	10	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*69-110*			

LCS (0E14023-BS1) Prepared: 05/14/2010 13:18 Analyzed: 05/15/2010 02:23

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		98	75-133			
Benzene	20		1.0	ug/L	20.0		102	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		96	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			
Trichloroethene	19		1.0	ug/L	20.0		97	75-115			
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*97*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E14023 - EPA 5030B_MS

Matrix Spike (0E14023-MS1) Prepared: 05/14/2010 13:18 Analyzed: 05/15/2010 02:52

Source: C005860-04

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	0.15 U	101	75-133			
Benzene	20		1.0	ug/L	20.0	0.050 U	101	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.069 U	97	83-117			
Toluene	20		1.0	ug/L	20.0	0.053 U	102	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	98	75-115			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*95*	*69-110*			

Matrix Spike Dup (0E14023-MSD1) Prepared: 05/14/2010 13:18 Analyzed: 05/15/2010 03:21

Source: C005860-04

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	0.15 U	96	75-133	5	20	
Benzene	20		1.0	ug/L	20.0	0.050 U	100	81-134	1	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.069 U	96	83-117	0.5	16	
Toluene	20		1.0	ug/L	20.0	0.053 U	101	71-118	0.5	17	
Trichloroethene	18		1.0	ug/L	20.0	0.13 U	91	75-115	7	18	
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*95*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*93*	*69-110*			

Batch 0E15001 - EPA 5030B_MS

Blank (0E15001-BLK1) Prepared: 05/15/2010 08:27 Analyzed: 05/15/2010 12:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,1-Dichloropropene	0.063	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.097	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,3-Dichlorobenzene	0.092	U	1.0	ug/L							
1,3-Dichloropropane	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2,2-Dichloropropane	0.12	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E15001 - EPA 5030B_MS

Blank (0E15001-BLK1) Continued Prepared: 05/15/2010 08:27 Analyzed: 05/15/2010 12:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Hexanone	0.69	U	5.0	ug/L							
3-Chloropropene	0.28	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acetonitrile	2.8	U	10	ug/L							
Acrolein	3.0	U	10	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
Chloroprene	0.24	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Dichlorodifluoromethane	0.091	U	1.0	ug/L							
Ethyl Methacrylate	0.32	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Hexachlorobutadiene	0.15	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Isobutyl alcohol	14	U	50	ug/L							
Methacrylonitrile	2.8	U	10	ug/L							
Methyl Methacrylate	0.53	U	1.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Naphthalene	0.086	U	1.0	ug/L							
Propionitrile	4.8	U	10	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*85*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*97*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E15001 - EPA 5030B_MS

LCS (0E15001-BS1) Prepared: 05/15/2010 08:27 Analyzed: 05/15/2010 13:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0		131	75-133			
Benzene	25		1.0	ug/L	20.0		124	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		104	83-117			
Toluene	21		1.0	ug/L	20.0		104	71-118			
Trichloroethene	21		1.0	ug/L	20.0		103	75-115			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

Matrix Spike (0E15001-MS1) Prepared: 05/15/2010 08:27 Analyzed: 05/15/2010 13:44

Source: C005860-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0	0.15 U	128	75-133			
Benzene	24		1.0	ug/L	20.0	0.050 U	122	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	100	83-117			
Toluene	20		1.0	ug/L	20.0	0.053 U	100	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	102	75-115			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*97*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*85*	*69-110*			

Matrix Spike Dup (0E15001-MSD1) Prepared: 05/15/2010 08:27 Analyzed: 05/15/2010 14:14

Source: C005860-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.15 U	121	75-133	6	20	
Benzene	24		1.0	ug/L	20.0	0.050 U	122	81-134	0	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	100	83-117	0.05	16	
Toluene	20		1.0	ug/L	20.0	0.053 U	101	71-118	2	17	
Trichloroethene	19		1.0	ug/L	20.0	0.13 U	95	75-115	7	18	
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*95*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0E17006 - EPA 3510C_MS

Blank (0E17006-BLK1) Prepared: 05/17/2010 08:41 Analyzed: 05/17/2010 15:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bis(2-ethylhexyl)phthalate	2.6	U	5.0	ug/L							
Surrogate: 2,4,6-Tribromophenol	*86*			*ug/L*	*100*		*86*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*42*			*ug/L*	*50.0*		*84*	*10-149*			
Surrogate: 2-Fluorophenol	*65*			*ug/L*	*100*		*65*	*10-110*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0E17006 - EPA 3510C_MS

Blank (0E17006-BLK1) Continued Prepared: 05/17/2010 08:41 Analyzed: 05/17/2010 15:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Nitrobenzene-d5	*41*			*ug/L*	*50.0*		*82*	*10-149*			
Surrogate: Phenol-d5	*58*			*ug/L*	*100*		*58*	*10-88*			
Surrogate: Terphenyl-d14	*48*			*ug/L*	*50.0*		*95*	*10-188*			

LCS (0E17006-BS1) Prepared: 05/17/2010 08:41 Analyzed: 05/17/2010 15:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	39		10	ug/L	50.0		78	40-109			
4-Chloro-3-methylphenol	45		10	ug/L	50.0		90	58-121			
4-Nitrophenol	34		10	ug/L	50.0		68	33-105			
Acenaphthene	41		10	ug/L	50.0		82	43-118			
N-Nitroso-di-n-propylamine	42		10	ug/L	50.0		83	48-126			
Phenol	27		10	ug/L	50.0		54	19-78			
Pyrene	44		10	ug/L	50.0		88	65-134			
Surrogate: 2,4,6-Tribromophenol	*93*			*ug/L*	*100*		*93*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*41*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: 2-Fluorophenol	*62*			*ug/L*	*100*		*62*	*10-110*			
Surrogate: Nitrobenzene-d5	*41*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: Phenol-d5	*53*			*ug/L*	*100*		*53*	*10-88*			
Surrogate: Terphenyl-d14	*44*			*ug/L*	*50.0*		*88*	*10-188*			

Matrix Spike (0E17006-MS1) Prepared: 05/17/2010 08:41 Analyzed: 05/17/2010 16:23

Source: C005860-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	31		10	ug/L	50.0	1.9 U	61	40-109			
4-Chloro-3-methylphenol	37		10	ug/L	50.0	1.6 U	74	58-121			
4-Nitrophenol	32		10	ug/L	50.0	1.2 U	63	33-105			
Acenaphthene	35		10	ug/L	50.0	1.1 U	70	43-118			
N-Nitroso-di-n-propylamine	33		10	ug/L	50.0	1.8 U	67	48-126			
Phenol	21		10	ug/L	50.0	1.2 U	43	19-78			
Pyrene	42		10	ug/L	50.0	1.3 U	84	65-134			
Surrogate: 2,4,6-Tribromophenol	*83*			*ug/L*	*100*		*83*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*34*			*ug/L*	*50.0*		*67*	*10-149*			
Surrogate: 2-Fluorophenol	*47*			*ug/L*	*100*		*47*	*10-110*			
Surrogate: Nitrobenzene-d5	*32*			*ug/L*	*50.0*		*64*	*10-149*			
Surrogate: Phenol-d5	*41*			*ug/L*	*100*		*41*	*10-88*			
Surrogate: Terphenyl-d14	*42*			*ug/L*	*50.0*		*85*	*10-188*			

Matrix Spike Dup (0E17006-MSD1) Prepared: 05/17/2010 08:41 Analyzed: 05/17/2010 16:50

Source: C005860-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	31		10	ug/L	50.0	1.9 U	62	40-109	1	22	
4-Chloro-3-methylphenol	40		10	ug/L	50.0	1.6 U	79	58-121	7	22	
4-Nitrophenol	34		10	ug/L	50.0	1.2 U	68	33-105	7	27	
Acenaphthene	38		10	ug/L	50.0	1.1 U	76	43-118	8	21	

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0E17006 - EPA 3510C_MS

Matrix Spike Dup (0E17006-MSD1) Continued Prepared: 05/17/2010 08:41 Analyzed: 05/17/2010 16:50

Source: C005860-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
N-Nitroso-di-n-propylamine	35		10	ug/L	50.0	1.8 U	70	48-126	5	23	
Phenol	22		10	ug/L	50.0	1.2 U	44	19-78	4	18	
Pyrene	43		10	ug/L	50.0	1.3 U	87	65-134	3	16	
Surrogate: 2,4,6-Tribromophenol	*87*			*ug/L*	*100*		*87*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*35*			*ug/L*	*50.0*		*70*	*10-149*			
Surrogate: 2-Fluorophenol	*49*			*ug/L*	*100*		*49*	*10-110*			
Surrogate: Nitrobenzene-d5	*33*			*ug/L*	*50.0*		*67*	*10-149*			
Surrogate: Phenol-d5	*42*			*ug/L*	*100*		*42*	*10-88*			
Surrogate: Terphenyl-d14	*45*			*ug/L*	*50.0*		*90*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 0E14005 - EPA 3510C

Blank (0E14005-BLK1) Prepared: 05/14/2010 08:55 Analyzed: 05/17/2010 11:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.013	U	0.050	ug/L							
4,4'-DDE	0.012	U	0.050	ug/L							
4,4'-DDT	0.015	U	0.050	ug/L							
Aldrin	0.012	U	0.050	ug/L							
alpha-BHC	0.015	U	0.050	ug/L							
beta-BHC	0.012	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.014	U	0.050	ug/L							
Chlordane-gamma	0.012	U	0.050	ug/L							
delta-BHC	0.014	U	0.050	ug/L							
Dieldrin	0.0089	U	0.050	ug/L							
Endosulfan I	0.016	U	0.050	ug/L							
Endosulfan II	0.012	U	0.050	ug/L							
Endosulfan sulfate	0.012	U	0.050	ug/L							
Endrin	0.013	U	0.050	ug/L							
Endrin aldehyde	0.012	U	0.050	ug/L							
gamma-BHC	0.016	U	0.050	ug/L							
Heptachlor	0.012	U	0.050	ug/L							
Heptachlor epoxide	0.0089	U	0.050	ug/L							
Methoxychlor	0.016	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.51*			*ug/L*	*1.00*		*51*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.45*			*ug/L*	*1.00*		*45*	*37-149*			

LCS (0E14005-BS1) Prepared: 05/14/2010 08:55 Analyzed: 05/17/2010 11:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.71		0.050	ug/L	1.00		71	37-139			
Dieldrin	0.64		0.050	ug/L	1.00		64	46-132			
Endrin	0.64		0.050	ug/L	1.00		64	43-133			

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 0E14005 - EPA 3510C

LCS (0E14005-BS1) Continued Prepared: 05/14/2010 08:55 Analyzed: 05/17/2010 11:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2,4,5,6-TCMX	*0.44*			*ug/L*	*1.00*		*44*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.51*			*ug/L*	*1.00*		*51*	*37-149*			

Matrix Spike (0E14005-MS1) Prepared: 05/14/2010 08:55 Analyzed: 05/17/2010 11:54

Source: C005860-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.74		0.050	ug/L	1.00	0.015 U	74	37-139			
Dieldrin	0.67		0.050	ug/L	1.00	0.0089 U	67	46-132			
Endrin	0.67		0.050	ug/L	1.00	0.013 U	67	43-133			
Surrogate: 2,4,5,6-TCMX	*0.47*			*ug/L*	*1.00*		*47*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.52*			*ug/L*	*1.00*		*52*	*37-149*			

Matrix Spike Dup (0E14005-MSD1) Prepared: 05/14/2010 08:55 Analyzed: 05/17/2010 12:08

Source: C005860-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.73		0.050	ug/L	1.00	0.015 U	73	37-139	2	26	
Dieldrin	0.65		0.050	ug/L	1.00	0.0089 U	65	46-132	2	27	
Endrin	0.66		0.050	ug/L	1.00	0.013 U	66	43-133	2	26	
Surrogate: 2,4,5,6-TCMX	*0.45*			*ug/L*	*1.00*		*45*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.50*			*ug/L*	*1.00*		*50*	*37-149*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0E14014 - EPA 245.1

Blank (0E14014-BLK1) Prepared: 05/14/2010 10:27 Analyzed: 05/14/2010 15:11

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 (0E14014-BS1) Prepared: 05/14/2010 10:27 Analyzed: 05/14/2010 15:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.32		0.200	ug/L	5.00		106	85-115			

Matrix Spike (0E14014-MS1) Prepared: 05/14/2010 10:27 Analyzed: 05/14/2010 15:36

Source: C005241-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.88		0.200	ug/L	5.00	0.170 U	98	85-115			

Matrix Spike Dup (0E14014-MSD1) Prepared: 05/14/2010 10:27 Analyzed: 05/14/2010 15:39

Source: C005241-05

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0E14014 - EPA 245.1

Matrix Spike Dup (0E14014-MSD1) Continued Prepared: 05/14/2010 10:27 Analyzed: 05/14/2010 15:39

Source: C005241-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.19		0.200	ug/L	5.00	0.170 U	104	85-115	6	15	

Post Spike (0E14014-PS1) Prepared: 05/14/2010 10:27 Analyzed: 05/14/2010 15:42

Source: C005241-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.14		0.200	ug/L	5.00	-0.0407	84	75-125			

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

Batch 0E13016 - EPA 3005A

Blank (0E13016-BLK1) Prepared: 05/13/2010 10:07 Analyzed: 05/14/2010 10:39

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 (0E13016-BS1) Prepared: 05/13/2010 10:07 Analyzed: 05/14/2010 10:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1060		10.0	ug/L	1000		106	80-120			
Barium	1050		10.0	ug/L	1000		105	80-120			
Beryllium	537		1.00	ug/L	500		107	80-120			
Cadmium	533		1.00	ug/L	500		107	80-120			
Chromium	1070		10.0	ug/L	1000		107	80-120			
Cobalt	1040		10.0	ug/L	1000		104	80-120			
Copper	543		10.0	ug/L	500		109	80-120			
Lead	1050		10.0	ug/L	1000		105	80-120			
Nickel	1050		10.0	ug/L	1000		105	80-120			
Silver	100		10.0	ug/L	100		100	80-120			
Vanadium	522		10.0	ug/L	500		104	80-120			
Zinc	1060		10.0	ug/L	1000		106	80-120			

Matrix Spike (0E13016-MS1) Prepared: 05/13/2010 10:07 Analyzed: 05/14/2010 10:49

Source: C005241-01

QUALITY CONTROL

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

Batch 0E13016 - EPA 3005A

Matrix Spike (0E13016-MS1) Continued Prepared: 05/13/2010 10:07 Analyzed: 05/14/2010 10:49

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1070		10.0	ug/L	1000	2.80 U	107	75-125			
Barium	1150		10.0	ug/L	1000	96.9	105	75-125			
Beryllium	533		1.00	ug/L	500	0.100 U	107	75-125			
Cadmium	519		1.00	ug/L	500	0.360 U	104	75-125			
Chromium	1060		10.0	ug/L	1000	2.85	106	75-125			
Cobalt	1030		10.0	ug/L	1000	1.17	103	75-125			
Copper	540		10.0	ug/L	500	1.60 U	108	75-125			
Lead	1040		10.0	ug/L	1000	1.90 U	104	75-125			
Nickel	1030		10.0	ug/L	1000	3.11	103	75-125			
Silver	99.8		10.0	ug/L	100	1.90 U	100	75-125			
Vanadium	521		10.0	ug/L	500	1.40 U	104	75-125			
Zinc	1030		10.0	ug/L	1000	6.29	103	75-125			

Matrix Spike Dup (0E13016-MSD1) Prepared: 05/13/2010 10:07 Analyzed: 05/14/2010 10:52

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1060		10.0	ug/L	1000	2.80 U	106	75-125	0.9	20	
Barium	1120		10.0	ug/L	1000	96.9	103	75-125	2	20	
Beryllium	535		1.00	ug/L	500	0.100 U	107	75-125	0.5	20	
Cadmium	511		1.00	ug/L	500	0.360 U	102	75-125	2	20	
Chromium	1040		10.0	ug/L	1000	2.85	104	75-125	2	20	
Cobalt	1010		10.0	ug/L	1000	1.17	101	75-125	2	20	
Copper	530		10.0	ug/L	500	1.60 U	106	75-125	2	20	
Lead	1030		10.0	ug/L	1000	1.90 U	103	75-125	0.9	20	
Nickel	1010		10.0	ug/L	1000	3.11	101	75-125	2	20	
Silver	97.9		10.0	ug/L	100	1.90 U	98	75-125	2	20	
Vanadium	512		10.0	ug/L	500	1.40 U	102	75-125	2	20	
Zinc	1020		10.0	ug/L	1000	6.29	101	75-125	2	20	

Post Spike (0E13016-PS1) Prepared: 05/13/2010 10:07 Analyzed: 05/14/2010 10:54

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.09		0.0100	mg/L	1.00	-0.00225	109	80-120			
Barium	1.17		0.0100	mg/L	1.00	0.0969	107	80-120			
Beryllium	0.556		0.00100	mg/L	0.500	4.03E-5	111	80-120			
Cadmium	0.534		0.00100	mg/L	0.500	0.000161	107	80-120			
Chromium	1.09		0.0100	mg/L	1.00	0.00285	109	80-120			
Cobalt	1.06		0.0100	mg/L	1.00	0.00117	106	80-120			
Copper	0.554		0.0100	mg/L	0.500	-0.00219	111	80-120			
Lead	1.06		0.0100	mg/L	1.00	-0.000131	106	80-120			
Nickel	1.06		0.0100	mg/L	1.00	0.00311	106	80-120			
Silver	0.0958		0.0100	mg/L	0.100	-0.000110	96	80-120			
Vanadium	0.536		0.0100	mg/L	0.500	0.000191	107	80-120			
Zinc	1.06		0.0100	mg/L	1.00	0.00629	106	80-120			

QUALITY CONTROL

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

Batch 0E13016 - EPA 3005A

Batch 0E13017 - EPA 3005A

Blank (0E13017-BLK1) Prepared: 05/13/2010 10:11 Analyzed: 05/18/2010 11:16

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 (0E13017-BS1) Prepared: 05/13/2010 10:11 Analyzed: 05/18/2010 11:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.5		2.00	ug/L	25.0		106	80-120			
Selenium	27.3		1.00	ug/L	25.0		109	80-120			
Thallium	27.3		1.00	ug/L	25.0		109	80-120			

Matrix Spike (0E13017-MS1) Prepared: 05/13/2010 10:11 Analyzed: 05/18/2010 11:27

Source: C005241-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.9		2.00	ug/L	25.0	0.220 U	100	75-125			
Selenium	27.5		1.00	ug/L	25.0	0.936	106	75-125			
Thallium	26.3		1.00	ug/L	25.0	0.110 U	105	75-125			

Matrix Spike Dup (0E13017-MSD1) Prepared: 05/13/2010 10:11 Analyzed: 05/18/2010 11:30

Source: C005241-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.1		2.00	ug/L	25.0	0.220 U	100	75-125	0.6	20	
Selenium	27.7		1.00	ug/L	25.0	0.936	107	75-125	0.7	20	
Thallium	26.7		1.00	ug/L	25.0	0.110 U	107	75-125	1	20	

Post Spike (0E13017-PS1) Prepared: 05/13/2010 10:11 Analyzed: 05/18/2010 11:41

Source: C005241-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.0		2.00	ug/L	25.0	0.0200	108	80-120			
Selenium	26.2		1.00	ug/L	25.0	0.936	101	80-120			
Thallium	26.7		1.00	ug/L	25.0	0.0650	107	80-120			

Classical Chemistry Parameters - Quality Control

Batch 0E13019 - Same

Blank (0E13019-BLK1) Prepared: 05/13/2010 12:47 Analyzed: 05/13/2010 16:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	2800	U	10000	ug/L							

LCS (0E13019-BS1) Prepared: 05/13/2010 12:47 Analyzed: 05/13/2010 16:56

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0E13019 - Same

LCS (0E13019-BS1) Continued Prepared: 05/13/2010 12:47 Analyzed: 05/13/2010 16:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	520000		10000	ug/L	500000		103	90-110			

Matrix Spike (0E13019-MS1) Prepared: 05/13/2010 12:47 Analyzed: 05/13/2010 16:56

Source: C004767-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	7800000		100000	ug/L	5000000	3600000	84	90-110			QM-07

Matrix Spike Dup (0E13019-MSD1) Prepared: 05/13/2010 12:47 Analyzed: 05/13/2010 16:56

Source: C004767-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	7900000		100000	ug/L	5000000	3600000	86	90-110	1	10	QM-07

Batch 0E13020 - NO PREP

Blank (0E13020-BLK1) Prepared & Analyzed: 05/13/2010 15:40

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 (0E13020-BS1) Prepared & Analyzed: 05/13/2010 15:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	180		2.0	mg/L	198		91	85-115			

Duplicate (0E13020-DUP1) Prepared & Analyzed: 05/13/2010 15:40

Source: C004958-01

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 0E13022 - NO PREP

Blank (0E13022-BLK1) Prepared: 05/13/2010 11:32 Analyzed: 05/13/2010 12:46

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 (0E13022-BS1) Prepared: 05/13/2010 11:32 Analyzed: 05/13/2010 12:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.25		103	80-120			

Matrix Spike (0E13022-MS1) Prepared: 05/13/2010 11:32 Analyzed: 05/13/2010 13:20

Source: C005241-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0E13022 - NO PREP

Matrix Spike (0E13022-MS1) Continued Prepared: 05/13/2010 11:32 Analyzed: 05/13/2010 13:20

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.9		0.10	mg/L	1.28	0.55	106	80-120			

Matrix Spike Dup (0E13022-MSD1) Prepared: 05/13/2010 11:32 Analyzed: 05/13/2010 13:22

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.9		0.10	mg/L	1.28	0.55	108	80-120	1	25	

Batch 0E14002 - NO PREP

Blank (0E14002-BLK1) Prepared: 05/14/2010 06:44 Analyzed: 05/14/2010 07:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	5.6	U	100	ug/L							

LCS (0E14002-BS1) Prepared: 05/14/2010 06:44 Analyzed: 05/14/2010 07:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.99		0.10	mg/L	1.00		99	80-120			

Matrix Spike (0E14002-MS1) Prepared: 05/14/2010 06:44 Analyzed: 05/14/2010 07:34

Source: C004791-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.1		0.10	mg/L	1.00	0.13	94	80-120			

Matrix Spike Dup (0E14002-MSD1) Prepared: 05/14/2010 06:44 Analyzed: 05/14/2010 07:36

Source: C004791-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.1		0.10	mg/L	1.00	0.13	94	80-120	0.06	25	

Batch 0E17002 - NO PREP

Blank (0E17002-BLK1) Prepared: 05/17/2010 06:41 Analyzed: 05/17/2010 13:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	18	U	5000	ug/L							
Sulfate as SO4	120	U	5000	ug/L							

LCS (0E17002-BS1) Prepared: 05/17/2010 06:41 Analyzed: 05/17/2010 14:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	50		5.0	mg/L	50.0		101	90-110			
Sulfate as SO4	49		5.0	mg/L	50.0		99	90-110			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0E17002 - NO PREP

Matrix Spike (0E17002-MS1) Prepared: 05/17/2010 06:41 Analyzed: 05/17/2010 14:22

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	54		5.0	mg/L	50.0	4.8	98	80-120			
Sulfate as SO4	59		5.0	mg/L	50.0	9.7	99	80-120			

Matrix Spike Dup (0E17002-MSD1) Prepared: 05/17/2010 06:41 Analyzed: 05/17/2010 14:42

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	55		5.0	mg/L	50.0	4.8	101	80-120	2	15	
Sulfate as SO4	60		5.0	mg/L	50.0	9.7	101	80-120	2	15	

Batch 0E17005 - NO PREP

Blank (0E17005-BLK1) Prepared: 05/17/2010 08:36 Analyzed: 05/17/2010 09:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	8000	U	15000	ug/L							

LCS (0E17005-BS1) Prepared: 05/17/2010 08:36 Analyzed: 05/17/2010 09:19

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

Matrix Spike (0E17005-MS1) Prepared: 05/17/2010 08:36 Analyzed: 05/17/2010 09:21

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	230	E	15	mg/L	100	220	11	80-120			QM-02

Matrix Spike Dup (0E17005-MSD1) Prepared: 05/17/2010 08:36 Analyzed: 05/17/2010 09:22

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	230	E	15	mg/L	100	220	9	80-120	0.9	25	QM-02

Batch 0E17013 - NO PREP

Blank (0E17013-BLK1) Prepared: 05/17/2010 11:36 Analyzed: 05/17/2010 11:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	31	U	100	ug/L							

LCS (0E17013-BS1) Prepared: 05/17/2010 11:36 Analyzed: 05/17/2010 11:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.40		0.10	mg/L	0.401		100	80-120			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0E17013 - NO PREP

Matrix Spike (0E17013-MS1) Prepared: 05/17/2010 11:36 Analyzed: 05/17/2010 11:54

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.092		0.10	mg/L	0.401	-0.014	26	80-120			QM-07

Matrix Spike Dup (0E17013-MSD1) Prepared: 05/17/2010 11:36 Analyzed: 05/17/2010 11:54

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.092		0.10	mg/L	0.401	-0.014	27	80-120	0.6	25	QM-07

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 0E24003 - NO PREP ANALYTIX

Blank (0E24003-BLK1) Prepared: 05/24/2010 08:45 Analyzed: 05/24/2010 10:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	780	U	2500	ug/L							
Ethane	0.450	U	2.00	ug/L							
Ethene	0.410	U	2.00	ug/L							
Methane	0.250	U	1.00	ug/L							

LCS (0E24003-BS1) Prepared: 05/24/2010 08:45 Analyzed: 05/24/2010 10:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	29300		2500	ug/L	26300		111	71-119			
Ethane	189		2.00	ug/L	179		106	75-123			
Ethene	182		2.00	ug/L	167		109	72-131			
Methane	101		1.00	ug/L	95.8		105	74-116			

Matrix Spike (0E24003-MS1) Prepared: 05/24/2010 08:45 Analyzed: 05/24/2010 10:26

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	205000		2500	ug/L	26300	169000	138	71-119			QM-02
Ethane	183		2.00	ug/L	179	0.450 U	102	75-123			
Ethene	178		2.00	ug/L	167	0.410 U	106	72-131			
Methane	101		1.00	ug/L	95.8	1.49	103	74-116			

Matrix Spike Dup (0E24003-MSD1) Prepared: 05/24/2010 08:45 Analyzed: 05/24/2010 10:30

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	222000	E	2500	ug/L	26300	169000	202	71-119	8	10	QM-02
Ethane	191		2.00	ug/L	179	0.450 U	107	75-123	5	14	
Ethene	189		2.00	ug/L	167	0.410 U	113	72-131	6	12	
Methane	105		1.00	ug/L	95.8	1.49	108	74-116	4	18	

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 0E24003 - NO PREP ANALYTIX

Volatile Fatty Acids by HPLC - Quality Control

Batch 0E19004 - NO PREP ANALYTIX

Blank (0E19004-BLK1) Prepared: 05/19/2010 08:59 Analyzed: 05/19/2010 12:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	83	U	500	ug/L							
Butyric Acid	160	U	500	ug/L							
Hexanoic Acid	230	U	1000	ug/L							
HIBA (2-Hydroxyisobutyric Acid)	160	U	500	ug/L							
iso-Hexanoic Acid	210	U	1000	ug/L							
iso-Pentanoic Acid	260	U	500	ug/L							
Lactic Acid	440	U	500	ug/L							
Pentanoic Acid	270	U	500	ug/L							
Propionic Acid	180	U	500	ug/L							
Pyruvic Acid	140	U	500	ug/L							
Surrogate: Trimethylacetic acid	*55000*			*ug/L*	*50000*		*110*	*80-124*			

LCS (0E19004-BS1) Prepared: 05/19/2010 08:59 Analyzed: 05/19/2010 13:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	20000		500	ug/L	20000		100	73-125			
Butyric Acid	21000		500	ug/L	20000		103	80-120			
Hexanoic Acid	18000		1000	ug/L	20000		92	78-120			
HIBA (2-Hydroxyisobutyric Acid)	21000		500	ug/L	20000		107	80-120			
iso-Hexanoic Acid	18000		1000	ug/L	20000		88	80-120			
iso-Pentanoic Acid	20000		500	ug/L	20000		102	78-120			
Lactic Acid	15000		500	ug/L	20000		74	56-154			
Pentanoic Acid	18000		500	ug/L	20000		88	77-120			
Propionic Acid	21000		500	ug/L	20000		103	80-120			
Pyruvic Acid	15000		500	ug/L	20000		73	37-142			
Surrogate: Trimethylacetic acid	*53000*			*ug/L*	*50000*		*107*	*80-124*			

Matrix Spike (0E19004-MS1) Prepared: 05/19/2010 08:59 Analyzed: 05/19/2010 14:52

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	18000		500	ug/L	20000	83 U	92	73-125			
Butyric Acid	21000		500	ug/L	20000	160 U	106	80-120			
Hexanoic Acid	21000		1000	ug/L	20000	230 U	105	78-120			
HIBA (2-Hydroxyisobutyric Acid)	19000		500	ug/L	20000	160 U	95	80-120			
iso-Hexanoic Acid	17000		1000	ug/L	20000	210 U	87	80-120			
iso-Pentanoic Acid	20000		500	ug/L	20000	260 U	99	78-120			
Lactic Acid	15000		500	ug/L	20000	440 U	76	56-154			
Pentanoic Acid	17000		500	ug/L	20000	270 U	84	77-120			
Propionic Acid	20000		500	ug/L	20000	180 U	101	80-120			
Pyruvic Acid	14000		500	ug/L	20000	140 U	70	37-142			
Surrogate: Trimethylacetic acid	*54000*			*ug/L*	*50000*		*107*	*80-124*			

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 0E19004 - NO PREP ANALYTIX

Matrix Spike Dup (0E19004-MSD1) Prepared: 05/19/2010 08:59 Analyzed: 05/19/2010 15:55

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	18000		500	ug/L	20000	83 U	92	73-125	0.06	10	
Butyric Acid	22000		500	ug/L	20000	160 U	111	80-120	5	10	
Hexanoic Acid	20000		1000	ug/L	20000	230 U	100	78-120	5	34	
HIBA (2-Hydroxyisobutyric Acid)	20000		500	ug/L	20000	160 U	102	80-120	6	15	
iso-Hexanoic Acid	18000		1000	ug/L	20000	210 U	89	80-120	2	15	
iso-Pentanoic Acid	20000		500	ug/L	20000	260 U	101	78-120	2	15	
Lactic Acid	14000		500	ug/L	20000	440 U	72	56-154	6	19	
Pentanoic Acid	17000		500	ug/L	20000	270 U	83	77-120	2	10	
Propionic Acid	20000		500	ug/L	20000	180 U	100	80-120	1	10	
Pyruvic Acid	14000		500	ug/L	20000	140 U	70	37-142	0.8	10	
Surrogate: Trimethylacetic acid	*56000*			*ug/L*	*50000*		*112*	*80-124*			

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 0E20038 - EPA 3510C

Blank (0E20038-BLK1) Prepared: 05/20/2010 12:34 Analyzed: 05/24/2010 12:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.053	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.056	U	0.50	ug/L							
2,4-D	0.091	U	0.50	ug/L							
Dinoseb	0.28	U	0.50	ug/L							
Pentachlorophenol	0.043	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*104*	*68-139*			

LCS (0E20038-BS1) Prepared: 05/20/2010 12:34 Analyzed: 05/24/2010 13:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.0		0.50	ug/L	2.00		98	68-154			
2,4-D	1.9		0.50	ug/L	2.00		93	62-144			
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*104*	*68-139*			

Matrix Spike (0E20038-MS1) Prepared: 05/20/2010 12:34 Analyzed: 05/24/2010 13:30

Source: A002596-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.0		0.50	ug/L	2.00	0.056 U	98	68-154			
2,4-D	2.0		0.50	ug/L	2.00	0.091 U	98	62-144			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*100*	*68-139*			

Matrix Spike Dup (0E20038-MSD1) Prepared: 05/20/2010 12:34 Analyzed: 05/24/2010 13:54

Source: A002596-01

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 0E20038 - EPA 3510C

Matrix Spike Dup (0E20038-MSD1) Continued Prepared: 05/20/2010 12:34 Analyzed: 05/24/2010 13:54

Source: A002596-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.1		0.50	ug/L	2.00	0.056 U	104	68-154	6	15	
2,4-D	2.0		0.50	ug/L	2.00	0.091 U	100	62-144	2	33	
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*110*	*68-139*			

Classical Chemistry Parameters - Quality Control

Batch 0E24006 - NO PREP

Blank (0E24006-BLK1) Prepared: 05/24/2010 14:06 Analyzed: 05/24/2010 14:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	0.32	U	1.0	mg/L							

LCS (0E24006-BS1) Prepared: 05/24/2010 14:06 Analyzed: 05/24/2010 14:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	42		1.0	mg/L	41.6		100	85-115			

Matrix Spike (0E24006-MS1) Prepared: 05/24/2010 14:06 Analyzed: 05/24/2010 14:40

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	43		1.0	mg/L	40.0	2.6	101	85-115			

Matrix Spike Dup (0E24006-MSD1) Prepared: 05/24/2010 14:06 Analyzed: 05/24/2010 14:40

Source: C005241-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	45		1.0	mg/L	40.0	2.6	105	85-115	4	21	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
B-09	Dissolved oxygen depletion data is consistent with samples exhibiting seed toxicity
Q	Analysis performed outside of method - specified holding time.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C005241

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	8081B Appendix 2	8081B Appendix 2, 8151A Appendix 2, 8270D Appendix 2	8081B Appendix 2, 8270D Appendix 2	8260B Appendix 1	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	Sample Comments
	9209-MW5R	5-12-10	1000	G	GW	20	X				X		X	X	X	X	- Report results
	9209-MW6	5-12-10	830	G	GW	21			X		X		X	X	X	X	according to SWS Sampling
	9209-MW6d	5-12-10	800	G	GW	4					X		X				limits
	9209-MW7				GW	5					X	X	X				- Report "J" values
	9209-MW8	5-12-10	1100	G	GW	19					X		X	X	X	X	- Provide edd in
	9209-MW8d				GW	4					X		X				SWS Format
	9209-MW9	5-12-10	1245	G	GW	21			X		X		X	X	X	X	
	9209-MW10	5-12-10	1210	G	GW	20					X	X	X	X	X	X	
	9209-MW10d				GW	5					X	X	X				
	9209-MW11	5-12-10	1400	G	GW	22		X			X		X	X	X	X	
	9209-MW11d				GW	7		X			X		X				
	9209-MW22	5-12-10	700	G	GW	6			X		X		X				

<-- Total # of Containers

Sample Kit Prepared By: CS	Date/Time: 5/6/10	Relinquished By: [signature]	Date/Time: 5-12-10 1625	Received By: Briana Gregory	Date/Time: 5/12/10 16:25
Comments: C-686 2.7°C; C-528 1.1°C; C-727 1.9°C; C-773 2.8°C; C-744 ~~1.1°C~~ 3.6°C		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: Briana Gregory	Date/Time: 5/13/10 08:15
		Cooler #'s & Temps on Receipt: C774, 770, 772, 773, 686, 740, 727, 733, 528, 623		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

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

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

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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info:
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

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

X Standard

__ Expedited

Due __/__/__

Lab Workorder: C005241

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	Fatty Acids	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B	Sample Comments
	9209-MW5R	5-12-10	1000	G	GW	20	X	X	X	X	X	X		X	X	X	See Sheet 1
	9209-MW6	5-12-10	830	G	GW	21	X	X	X	X	X	X		X	X	X	
	9209-MW6d	5-12-10	800	G	GW	4			X								
	9209-MW7				GW	5			X								
	9209-MW8	5-12-10	1100	G	GW	19	X	X	X	X	X	X		X	X	X	
	9209-MW8d				GW	4			X								
	9209-MW9	5-12-10	1245	G	GW	21	X	X	X		X	X	X	X	X	X	
	9209-MW10	5-12-10	1210	G	GW	20	X	X	X		X	X	X	X	X	X	
	9209-MW10d				GW	5			X								
	9209-MW11	5-12-10	1400	G	GW	22	X	X	X		X	X	X	X	X	X	
	9209-MW11d				GW	7			X								
	9209-MW22	5-12-10	700	G	GW	6			X								

<-- Total # of Containers

Sample Kit Prepared By: CS	Date/Time: 5/6/10	Relinquished By: [signature]	Date/Time: 5-12-10 1625
Comments: C-686 2.7°C C-528 1.1°C; C-727 1.9°C; C-773 2.8°C; C-744 3.6°C		Relinquished By:	Date/Time:
		Relinquished By:	Date/Time:
		Cooler #'s & Temps on Receipt: C774, 770, 772, 773, 686, 740, 727, 733, 528, 623	

Received By: Briana Gregory	Date/Time: 5/12/10 16:25
Received By:	Date/Time:
Received By: Briana Gregory	Date/Time: 5/13/10 08:15
Condition Upon Receipt: X Acceptable __ Unacceptable	

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

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

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Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info:
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C005241

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	8081B Appendix 2	8081B Appendix 2,8151A Appendix 2,8270D Appendix 2	8081B Appendix 2,8270D Appendix 2	8260B Appendix 1	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	Sample Comments
	9209-MW23				GW	5					X	X	X				See Sheet 1
	9209-MW23d				GW	5					X	X	X				
	9209-MW24				GW	5					X	X	X				
	9209-MW28				GW	5	X				X		X				
	9209-MW28d				GW	5					X	X	X				
	9209-MW29d				GW	6			X		X		X				
	9209-MW30	5-12-10	1455	G	GW	5	X				X		X				
	9209-MW31	5-12-10	1430	G	GW	5	X				X		X				
	9209-MW31d	5-11-10	1235	G	GW	5					X	X	X				
	9209-MW32	5-12-10	1515	G	GW	4					X		X				
	9209-TB1a	5-12-10	1440	G	GW	5	X				X		X				
	9209-TB1ad	5-11-10	1325	G	GW	4					X		X				

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CS	5/6/10	[signature]	5-12-10 1625	Briana Gregory	5/12/10 16:25
Comments: C-686 2.7°C C-528 1.1°C; C-727 1.9°C; C-773 2.5°C; C-744 3.6°C		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: Briana Gregory	Date/Time: 5/13/10 08:15
		Cooler #'s & Temps on Receipt: C774, 770, 772, 773, 686, 740, 727, 733, 528, 623		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

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

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Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info:
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C005241

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Fatty Acids	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B	Sample Comments
	9209-MW23				GW	5			X								See sheet
	9209-MW23d				GW	5			X								
	9209-MW24				GW	5			X								
	9209-MW28				GW	5			X								
	9209-MW28d				GW	5			X								
	9209-MW29d				GW	6			X								
	9209-MW30	5-12-10	1455	G	GW	5			X								
	9209-MW31	5-12-10	1430	G	GW	5			X								
	9209-MW31d	5-11-10	1235	G	GW	5			X								
	9209-MW32	5-12-10	1515	G	GW	4			X								
	9209-TB1a	5-12-10	1410	G	GW	5			X								
	9209-TB1ad	5-12-10	1325	G	GW	4			X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CS	5/6/10	[signature]	5-12-10 1625	Briana Gregory	5/12/10 16:25
Comments: C-686 2.7°C C-528 1.1°C; C-727 1.9°C; C-773 2.8°C; C-744 3.6°C		Relinquished By		Received By	
		Relinquished By		Received By: Briana Gregory	5/13/10 08:15
		Cooler #'s & Temps on Receipt: C774, 770, 772, 773, 686, 740, 727, 733, 528, 623		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

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

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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info:
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C005241

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	8081B Appendix 2	8081B Appendix 2, 8151A Appendix 2, 8270D Appendix 2	8081B Appendix 2, 8270D Appendix 2	8260B Appendix 1	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	Sample Comments
	9209-MW33	5-12-10	1040	G	GW	5	X				X		X				See Sheet 1
	9209-MW34	5-12-10	920	G	GW	4					X		X				
	9209-MW34d	5-11-10	1000	G	GW	5					X	X	X				
	9209-MW35	5-12-10	935	G	GW	4					X		X				
	9209-MW36	5-12-10	1320	G	GW	21			X		X		X	X	X	X	
	9209-MW36d				GW	6			X		X		X				
	9209-DUP				GW	6			X		X		X				
	9209-EQBlank				WA	6			X		X		X				
	9209-TripBlank	5-12-10	—	—	WA	2				X							

<-- Total # of Containers

Sample Kit Prepared By: CS	Date/Time: 5/6/10	Relinquished By: [signature]	Date/Time: 5-12-10 1625	Received By: Briana Gregory	Date/Time: 5/12/10 16:25
Comments: C-686 2.7°C; C-528 1.1°C; C-727 1.9°C; C-773 2.8°C; C-744 3.6°C		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By: Briana Gregory	Date/Time: 5/13/10 08:15
		Cooler #'s & Temps on Receipt: C774,770,772,773,686,740,727,733,528,623		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

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

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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required)

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C005241

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Fatty Acids	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B	Sample Comments
	9209-MW33	5-12-10	1040	G	GW	5			X								See sheet 1
	9209-MW34	5-12-10	920	G	GW	4			X								
	9209-MW34d	5-11-10	1000	G	GW	5			X								
	9209-MW35	5-12-10	935	G	GW	4			X								
	9209-MW36	5-12-10	1320	G	GW	21	X	X	X		X	X	X	X	X	X	
	9209-MW36d				GW	6			X								
	9209-DUP				GW	6			X								
	9209-EQBlank				WA	6			X								
	9209-TripBlank	5-12-10	—	—	WA	2											

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CS	5/6/10	AWW	5-12-10 1625	Briana Gregory	5/12/10 16:25
Comments: C-686 2.7°C; C-727 1.9°C; C-773 2.8°C; C-744 3.6°C; C-528 1.1°C		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: Briana Gregory	Date/Time: 5/13/10 08:15
		Cooler #'s & Temps on Receipt: C774, 770 772, 773, 686, 740, 727, 733, 528, 623		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

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

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

microseeps
from insight comes solutions

Client Name: Environmental Conservation Labs, Inc.
Contact: Chuck Smith
Address: 102 A Woodwinds Industrial Court
Cary, NC 27511

Page: Page 1 of 4
Lab Proj #: P1005237
Report Date: 05/28/10
Client Proj Name: C005241
Client Proj #: C005241

Laboratory Results

Total pages in data package: 5

Lab Sample #	Client Sample ID
P1005237-01	9209-MW5R
P1005237-02	9209-MW6
P1005237-03	9209-MW8

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo ***Date:*** 5-28-10

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Environmental Conservation Labs, Inc.
Contact: Chuck Smith
Address: 102 A Woodwinds Industrial Court
Cary, NC 27511

Lab Proj #: P1005237
Report Date: 05/28/10
Client Proj Name: C005241
Client Proj #: C005241

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
9209-MW5R	Vapor	P1005237-01	12 May. 10 10:00	14 May. 10 13:42

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	2.600	0.600	nM	AM20GAX	5/25/10	sl

N - NELAC certified analysis

Client Name: Environmental Conservation Labs, Inc.
Contact: Chuck Smith
Address: 102 A Woodwinds Industrial Court
Cary, NC 27511

Lab Proj #: P1005237
Report Date: 05/28/10
Client Proj Name: C005241
Client Proj #: C005241

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
9209-MW6	Vapor	P1005237-02	12 May. 10 8:30	14 May. 10 13:42

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	3.300	0.600	nM	AM20GAX	5/25/10	sl

N - NELAC certified analysis

Client Name: Environmental Conservation Labs, Inc.
Contact: Chuck Smith
Address: 102 A Woodwinds Industrial Court
Cary, NC 27511

Lab Proj #: P1005237
Report Date: 05/28/10
Client Proj Name: C005241
Client Proj #: C005241

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
9209-MW8	Vapor	P1005237-03	12 May. 10 11:00	14 May. 10 13:42

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	3.000	0.600	nM	AM20GAX	5/25/10	sl

N - NELAC certified analysis

SUBCONTRACT ORDER

ENCO Cary

C005241

P1005237

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
	9209-MW5R	Ground Water	12-May-10 10:00	

Analysis	Due	Expires	Analysis Comments
Hydrogen	27-May-10 15:00	19-May-10 10:00	

Containers Supplied:
Other (U)

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-MW6	Ground Water	12-May-10 08:30	

Analysis	Due	Expires	Analysis Comments
Hydrogen	27-May-10 15:00	19-May-10 08:30	

Containers Supplied:
Other (V)

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-MW8	Ground Water	12-May-10 11:00	

Analysis	Due	Expires	Analysis Comments
Hydrogen	27-May-10 15:00	19-May-10 11:00	

Containers Supplied:
Other (T)

Released By	Date	Received By	Date
Briana Gregory	5/13/10		5/14/10 1200

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

May 25, 2010 11:03:18AM

Client: Enco Laboratories -Cary (2874)
102-A Woodwinds Industrial Court
Cary, NC 27511
Attn: Chuck Smith

Work Order: NTE2326
Project Name: ENCO Laboratories (NC)
Project Nbr: C005241
P/O Nbr:
Date Received: 05/22/10

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
9209-MW5R	NTE2326-01	05/12/10 10:00
9209-MW6	NTE2326-02	05/12/10 08:30
9209-MW8	NTE2326-03	05/12/10 11:00
9209-MW9	NTE2326-04	05/12/10 12:45
9209-MW10	NTE2326-05	05/12/10 12:10
9209-MW11	NTE2326-06	05/12/10 14:00
9209-MW36	NTE2326-07	05/12/10 13:20

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

North Carolina Certification Number: 387

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Ken A. Hayes

Senior Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Enco Laboratories -Cary (2874)	Work Order:	NTE2326
	102-A Woodwinds Industrial Court	Project Name:	ENCO Laboratories (NC)
	Cary, NC 27511	Project Number:	C005241
Attn	Chuck Smith	Received:	05/22/10 08:15

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTE2326-01 (9209-MW5R - Water) Sampled: 05/12/10 10:00									
General Chemistry Parameters									
Iron, ferrous	**0.0390**	B, HTI, J	mg/L	0.0100	0.100	1	05/24/10 15:55	SM 3500Fe B	10E4053
Sample ID: NTE2326-02 (9209-MW6 - Water) Sampled: 05/12/10 08:30									
General Chemistry Parameters									
Iron, ferrous	**3.75**	B1, HTI	mg/L	0.0100	0.100	1	05/24/10 15:55	SM 3500Fe B	10E4053
Sample ID: NTE2326-03 (9209-MW8 - Water) Sampled: 05/12/10 11:00									
General Chemistry Parameters									
Iron, ferrous	**0.793**	B1, HTI	mg/L	0.0100	0.100	1	05/24/10 15:55	SM 3500Fe B	10E4053
Sample ID: NTE2326-04 (9209-MW9 - Water) Sampled: 05/12/10 12:45									
General Chemistry Parameters									
Iron, ferrous	**16.5**	B1, HTI	mg/L	0.100	1.00	10	05/24/10 15:55	SM 3500Fe B	10E4053
Sample ID: NTE2326-05 (9209-MW10 - Water) Sampled: 05/12/10 12:10									
General Chemistry Parameters									
Iron, ferrous	**2.84**	B1, HTI	mg/L	0.0100	0.100	1	05/24/10 15:55	SM 3500Fe B	10E4053
Sample ID: NTE2326-06 (9209-MW11 - Water) Sampled: 05/12/10 14:00									
General Chemistry Parameters									
Iron, ferrous	**0.120**	B, HTI	mg/L	0.0100	0.100	1	05/24/10 15:55	SM 3500Fe B	10E4053
Sample ID: NTE2326-07 (9209-MW36 - Water) Sampled: 05/12/10 13:20									
General Chemistry Parameters									
Iron, ferrous	**1.00**	B1, HTI	mg/L	0.0100	0.100	1	05/24/10 15:55	SM 3500Fe B	10E4053

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Enco Laboratories -Cary (2874)	Work Order:	NTE2326
	102-A Woodwinds Industrial Court	Project Name:	ENCO Laboratories (NC)
	Cary, NC 27511	Project Number:	C005241
Attn	Chuck Smith	Received:	05/22/10 08:15

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
General Chemistry Parameters						
10E4053-BLK1						
Iron, ferrous	0.0140	J	mg/L	10E4053	10E4053-BLK1	05/24/10 15:55

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Enco Laboratories -Cary (2874)	Work Order:	NTE2326
	102-A Woodwinds Industrial Court	Project Name:	ENCO Laboratories (NC)
	Cary, NC 27511	Project Number:	C005241
Attn	Chuck Smith	Received:	05/22/10 08:15

PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
10E4053-DUP1										
Iron, ferrous	1.00	0.998		mg/L	0.7	20	10E4053	NTE2326-07		05/24/10 15:55

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Enco Laboratories -Cary (2874)	Work Order:	NTE2326
	102-A Woodwinds Industrial Court	Project Name:	ENCO Laboratories (NC)
	Cary, NC 27511	Project Number:	C005241
Attn	Chuck Smith	Received:	05/22/10 08:15

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
General Chemistry Parameters								
10E4053-BS1								
Iron, ferrous	1.00	1.05		mg/L	105%	80 - 120	10E4053	05/24/10 15:55

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Enco Laboratories -Cary (2874)	Work Order:	NTE2326
	102-A Woodwinds Industrial Court	Project Name:	ENCO Laboratories (NC)
	Cary, NC 27511	Project Number:	C005241
Attn	Chuck Smith	Received:	05/22/10 08:15

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters												
10E4053-BSD1												
Iron, ferrous		1.06		mg/L	1.00	106%	80 - 120	1	20	10E4053		05/24/10 15:55

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Enco Laboratories -Cary (2874)	Work Order:	NTE2326
	102-A Woodwinds Industrial Court	Project Name:	ENCO Laboratories (NC)
	Cary, NC 27511	Project Number:	C005241
Attn	Chuck Smith	Received:	05/22/10 08:15

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
General Chemistry Parameters										
10E4053-MS1										
Iron, ferrous	0.0390	<0.0100	HTI,	mg/L	1.00	-4%	75 - 125	10E4053	NTE2326-01	05/24/10 15:55

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Enco Laboratories -Cary (2874)	Work Order:	NTE2326
	102-A Woodwinds Industrial Court	Project Name:	ENCO Laboratories (NC)
	Cary, NC 27511	Project Number:	C005241
Attn	Chuck Smith	Received:	05/22/10 08:15

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters												
10E4053-MSD1												
Iron, ferrous	0.0390	<0.0100	HTI,	mg/L	1.00	-4%	75 - 125		20	10E4053	NTE2326-01	05/24/10 15:55

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Enco Laboratories -Cary (2874)	Work Order:	NTE2326
	102-A Woodwinds Industrial Court	Project Name:	ENCO Laboratories (NC)
	Cary, NC 27511	Project Number:	C005241
Attn	Chuck Smith	Received:	05/22/10 08:15

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	North Carolina
SM 3500Fe B	Water		X	X

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Enco Laboratories -Cary (2874)	Work Order:	NTE2326
	102-A Woodwinds Industrial Court	Project Name:	ENCO Laboratories (NC)
	Cary, NC 27511	Project Number:	C005241
Attn	Chuck Smith	Received:	05/22/10 08:15

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
B1	Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
HTI	The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
MNR	No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEIPT

NTE2326

Cooler Received/Opened On_05/22/10 @ 8:15

1. Tracking #_____6951_____(last 4 digits, Fed

Courier: ___FED-EX IR Gun ID___97310166

2. Temperature of rep. sample or temp blank when opened: 1.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) P.H.

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment

Cooler Receipt Form.doc

LF-1

End of Form

Revised 9/6/07

SUBCONTRACT ORDER

ENCO Cary

C005241

NTE2326

06/08/10 23:59

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:

Test America (TN)
2960 Foster Creighton Dr.
Nashville, TN 37204
Phone :999
Fax: 999
Project State of Origin: North Carolina

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-MW5R	Ground Water	12-May-10 10:00	

Analysis	Due	Expires	Analysis Comments
Iron, Ferrous SM3500-Fe D *Containers Supplied:* 40mLV+HCl (T)	~~27-May~~-10 15:00 8-June	12-May-10 10 14	1

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-MW6	Ground Water	12-May-10 08:30	

Analysis	Due	Expires	Analysis Comments
Iron, Ferrous SM3500-Fe D *Containers Supplied:* 40mLV+HCl (U)	~~27-May~~-10 15:00 8-June	12-May-10 08:44	2

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-MW8	Ground Water	12-May-10 11:00	

Analysis	Due	Expires	Analysis Comments
Iron, Ferrous SM3500-Fe D *Containers Supplied:* 40mLV+HCl (S)	~~27-May~~-10 15:00 8-June	12-May-10 11:14	3

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-MW9	Ground Water	12-May-10 12:45	

Analysis	Due	Expires	Analysis Comments
Iron, Ferrous SM3500-Fe D *Containers Supplied:* 40mLV+HCl (U)	~~27-May~~-10 15:00 8-June	12-May-10 12:59	4

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-MW10	Ground Water	12-May-10 12:10	

Analysis	Due	Expires	Analysis Comments
Iron, Ferrous SM3500-Fe D *Containers Supplied:* 40mLV+HCl (T)	~~27-May~~-10 15:00 8-June	12-May-10 12:24	5

Released By	Date	Received By	Date
Briana Gregory	5/21/10		
			5/22/10 0815

Released By	Date	Received By	Date

SUBCONTRACT ORDER

ENCO Cary

C005241

NTE2326

06/08/10 23:59

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-MW11	Ground Water	12-May-10 14:00	

Analysis	Due	Expires	Analysis Comments
Iron, Ferrous SM3500-Fe D *Containers Supplied:* 40mLV+HCl (V)	~~27-May~~-10 15:00 8-June	12-May-10 14:14	6

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-MW36	Ground Water	12-May-10 13:20	

Analysis	Due	Expires	Analysis Comments
Iron, Ferrous SM3500-Fe D *Containers Supplied:* 40mLV+HCl (U)	~~27-May~~-10 15:00 8-June	12-May-10 13:34	7

Released By	Date	Received By	Date
BJG	5/21/10		
Released By	Date	Received By	Date
			5/21/10 0815

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

Wednesday, May 26, 2010

CDM (CD004)

Attn: Aaron Weispfenning

5400 GLENWOOD AVE SUITE 300

RALEIGH, NC 27612-

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: North Wake Unlined Landfill
ENCO Workorder: C005859

Dear Aaron Weispfenning,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, May 13, 2010.

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

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

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

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

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 96.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 9209-MW7	Lab ID: C005859-01	Sampled: 05/13/10 12:30	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/09/10		05/13/10	15:26	5/14/2010 12:41
EPA 6020A	11/09/10		05/13/10	15:28	5/18/2010 10:26
EPA 7470A	06/10/10		05/14/10	10:33	5/14/2010 17:09
EPA 8260B	05/27/10		05/14/10	10:22	5/14/2010 17:18
EPA 8270D	05/20/10	06/26/10	05/17/10	13:30	5/17/2010 22:38

Client ID: 9209-MW8d	Lab ID: C005859-02	Sampled: 05/13/10 12:15	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/09/10		05/13/10	15:26	5/14/2010 12:50
EPA 6020A	11/09/10		05/13/10	15:28	5/18/2010 10:29
EPA 7470A	06/10/10		05/14/10	10:33	5/14/2010 17:36
EPA 8260B	05/27/10		05/14/10	10:22	5/14/2010 17:50

Client ID: 9209-MW10d	Lab ID: C005859-03	Sampled: 05/13/10 10:45	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/09/10		05/13/10	15:26	5/14/2010 12:53
EPA 6020A	11/09/10		05/13/10	15:28	5/18/2010 10:33
EPA 7470A	06/10/10		05/14/10	10:33	5/14/2010 17:39
EPA 8260B	05/27/10		05/14/10	10:22	5/14/2010 18:22
EPA 8270D	05/20/10	06/26/10	05/17/10	13:30	5/17/2010 23:05

Client ID: 9209-MW11d	Lab ID: C005859-04	Sampled: 05/13/10 09:00	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/09/10		05/13/10	15:26	5/14/2010 12:55
EPA 6020A	11/09/10		05/13/10	15:28	5/18/2010 10:37
EPA 7470A	06/10/10		05/14/10	10:33	5/14/2010 17:42
EPA 8081B	05/20/10	06/27/10	05/18/10	10:35	5/19/2010 09:50
EPA 8151A	05/20/10	06/29/10	05/20/10	12:34	5/24/2010 16:20
EPA 8260B	05/27/10		05/14/10	10:22	5/14/2010 18:54
EPA 8270D	05/20/10	06/26/10	05/17/10	13:30	5/17/2010 23:32

Client ID: 9209-MW23	Lab ID: C005859-05	Sampled: 05/13/10 13:10	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/09/10		05/13/10	15:26	5/14/2010 12:58
EPA 6020A	11/09/10		05/13/10	15:28	5/18/2010 10:40
EPA 7470A	06/10/10		05/14/10	10:33	5/14/2010 17:45
EPA 8260B	05/27/10		05/14/10	10:22	5/14/2010 19:26
EPA 8270D	05/20/10	06/26/10	05/17/10	13:30	5/17/2010 23:59

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Client ID: 9209-MW23d	Lab ID: C005859-06	Sampled: 05/13/10 10:30	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/09/10		05/13/10	15:26	5/14/2010 13:00
EPA 6020A	11/09/10		05/13/10	15:28	5/18/2010 10:44
EPA 7470A	06/10/10		05/14/10	10:33	5/14/2010 17:48
EPA 8260B	05/27/10		05/14/10	10:22	5/14/2010 19:57
EPA 8270D	05/20/10	06/26/10	05/17/10	13:30	5/18/2010 00:27

Client ID: 9209-MW24	Lab ID: C005859-07	Sampled: 05/13/10 12:50	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/09/10		05/13/10	15:26	5/14/2010 13:03
EPA 6020A	11/09/10		05/13/10	15:28	5/18/2010 10:47
EPA 7470A	06/10/10		05/14/10	10:33	5/14/2010 17:50
EPA 8260B	05/27/10		05/14/10	10:22	5/14/2010 20:29
EPA 8270D	05/20/10	06/26/10	05/17/10	13:30	5/18/2010 00:53

Client ID: 9209-MW28	Lab ID: C005859-08	Sampled: 05/13/10 13:45	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/09/10		05/13/10	15:26	5/14/2010 13:05
EPA 6020A	11/09/10		05/13/10	15:28	5/18/2010 10:58
EPA 7470A	06/10/10		05/14/10	10:33	5/14/2010 17:54
EPA 8081B	05/20/10	06/27/10	05/18/10	10:35	5/19/2010 10:03
EPA 8260B	05/27/10		05/14/10	10:22	5/14/2010 21:00

Client ID: 9209-MW28d	Lab ID: C005859-09	Sampled: 05/13/10 07:30	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/09/10		05/13/10	15:26	5/14/2010 13:07
EPA 6020A	11/09/10		05/13/10	15:28	5/18/2010 11:02
EPA 7470A	06/10/10		05/14/10	10:33	5/14/2010 17:57
EPA 8260B	05/27/10		05/14/10	10:22	5/14/2010 21:30
EPA 8270D	05/20/10	06/26/10	05/17/10	13:30	5/18/2010 01:20

Client ID: 9209-MW29d	Lab ID: C005859-10	Sampled: 05/13/10 08:00	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/09/10		05/13/10	15:26	5/14/2010 13:10
EPA 6020A	11/09/10		05/13/10	15:28	5/18/2010 11:05
EPA 7470A	06/10/10		05/14/10	10:33	5/14/2010 18:06
EPA 8081B	05/20/10	06/27/10	05/18/10	10:35	5/19/2010 10:16
EPA 8260B	05/27/10		05/14/10	10:22	5/14/2010 22:00
EPA 8270D	05/20/10	06/26/10	05/17/10	13:30	5/18/2010 01:48

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Client ID: 9209-MW36d	Lab ID: C005859-11	Sampled: 05/13/10 11:20	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/09/10		05/13/10	15:26	5/14/2010 13:13
EPA 6020A	11/09/10		05/13/10	15:28	5/18/2010 11:09
EPA 7470A	06/10/10		05/14/10	10:33	5/14/2010 18:09
EPA 8081B	05/20/10	06/27/10	05/18/10	10:35	5/19/2010 10:30
EPA 8260B	05/27/10		05/14/10	10:22	5/14/2010 22:29
EPA 8270D	05/20/10	06/26/10	05/17/10	13:30	5/18/2010 02:15

Client ID: 9209-DUP	Lab ID: C005859-12	Sampled: 05/13/10 10:00	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/09/10		05/13/10	15:26	5/14/2010 13:22
EPA 6020A	11/09/10		05/13/10	15:28	5/18/2010 09:39
EPA 7470A	06/10/10		05/14/10	10:33	5/14/2010 18:12
EPA 8081B	05/20/10	06/27/10	05/18/10	10:35	5/19/2010 10:43
EPA 8260B	05/27/10		05/14/10	10:22	5/14/2010 22:58

Client ID: 9209-DUP	Lab ID: C005859-12RE1	Sampled: 05/13/10 10:00	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	05/20/10	06/28/10	05/19/10	09:27	5/19/2010 19:57

Client ID: 9209-EQBlank	Lab ID: C005859-13	Sampled: 05/13/10 08:45	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/09/10		05/13/10	15:26	5/14/2010 12:05
EPA 6020A	11/09/10		05/13/10	15:28	5/18/2010 11:12
EPA 7470A	06/10/10		05/14/10	10:33	5/14/2010 18:15
EPA 8081B	05/20/10	06/27/10	05/18/10	10:35	5/19/2010 10:56
EPA 8270D	05/20/10	06/26/10	05/17/10	13:30	5/18/2010 03:09

Client ID: 9209-EQBlank	Lab ID: C005859-13RE1	Sampled: 05/13/10 08:45	Received: 05/13/10 14:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	05/27/10		05/14/10	10:22	5/15/2010 15:45

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 9209-MW7 **Lab ID: C005859-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.46	J	1	0.050	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	2.0		1	0.10	1.0	1	ug/L	EPA 8260B	
Barium - Total	49.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	2.1		1	0.050	1.0	1	ug/L	EPA 8260B	
Cadmium - Total	0.900	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	1.64	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	1.8	J	1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	32.7		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	16.2		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	4.14	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	10.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	0.889	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	4.95	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	3.1		1	0.083	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	0.50	J	1	0.22	1.0	5	ug/L	EPA 8260B	
Zinc - Total	15.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW8d **Lab ID: C005859-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.884	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	24.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.602	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chloroform	0.45	J	1	0.083	1.0	5	ug/L	EPA 8260B	
Chromium - Total	4.79	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	4.39	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	11.9		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW10d **Lab ID: C005859-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	2.5	J	1	0.050	1.0	5	ug/L	EPA 8260B	
Barium - Total	8.37	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.466	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	27.6		1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.93	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	0.78	J	1	0.091	1.0	5	ug/L	EPA 8260B	
Lead - Total	2.54	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	13.5	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrachloroethene	0.64	J	1	0.099	1.0	1	ug/L	EPA 8260B	
Trichloroethene	0.59	J	1	0.13	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	2.61	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	9.28	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW11d **Lab ID: C005859-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	1.01	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	47.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	5.10	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.10	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	5.50	J	1	1.40	10.0	25	ug/L	EPA 6010C	

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Client ID: 9209-MW11d **Lab ID: C005859-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Zinc - Total	12.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW23 **Lab ID: C005859-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	124		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	23.8		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	9.69	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	45.6		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	23.6		1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	12.8	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.348	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	52.0		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	81.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW23d **Lab ID: C005859-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	2.10	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	41.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.593	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	5.43	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.27	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.06	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	7.12	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	39.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW24 **Lab ID: C005859-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	2.98	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	82.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	13		1	0.083	1.0	5	ug/L	EPA 8260B	
Chromium - Total	6.43	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.42	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	9.23	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	13.2		1	1.90	10.0	10	ug/L	EPA 6010C	
Mercury - Total	0.197	J	1	0.170	0.200	0.2	ug/L	EPA 7470A	
Thallium - Total	0.241	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	13.9	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	87.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW28 **Lab ID: C005859-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	35.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	6.55	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.35	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	7.87	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	17.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW28d **Lab ID: C005859-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	7.52	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	2.21	J	1	1.00	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW28d **Lab ID: C005859-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Vanadium - Total	3.05	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	8.79	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW29d **Lab ID: C005859-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	38.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	4.33	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.61	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.10	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	23.0		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW36d **Lab ID: C005859-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	12		1	0.050	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	0.58	J	1	0.10	1.0	1	ug/L	EPA 8260B	
Barium - Total	105		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.58	J	1	0.050	1.0	1	ug/L	EPA 8260B	
Chloroform	0.50	J	1	0.083	1.0	5	ug/L	EPA 8260B	
Chromium - Total	30.6		1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	4.4	J	1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	5.53	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	32.4		1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	2.5	J	1	0.091	1.0	5	ug/L	EPA 8260B	
Lead - Total	2.42	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	13.6	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrachloroethene	1.2		1	0.099	1.0	1	ug/L	EPA 8260B	
Trichloroethene	1.6		1	0.13	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	32.2		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	25.0		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-DUP **Lab ID: C005859-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	12		1	0.050	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	0.62	J	1	0.10	1.0	1	ug/L	EPA 8260B	
Barium - Total	126		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.49	J	1	0.050	1.0	1	ug/L	EPA 8260B	
Cadmium - Total	0.374	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chloroform	0.51	J	1	0.083	1.0	5	ug/L	EPA 8260B	
Chromium - Total	44.2		1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	4.3	J	1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	7.51	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	43.0		1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	2.4	J	1	0.091	1.0	5	ug/L	EPA 8260B	
Lead - Total	2.67	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	18.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrachloroethene	1.4		1	0.099	1.0	1	ug/L	EPA 8260B	
Thallium - Total	0.167	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Trichloroethene	1.6		1	0.13	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	41.3		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	34.4		1	3.80	10.0	10	ug/L	EPA 6010C	

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Client ID:	9209-EQBlank				Lab ID:	C005859-13RE1			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Acetone	5.0	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Toluene	0.41	J	1	0.053	1.0	1	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: 9209-MW7 **Lab Sample ID:** C005859-01 **Received:** 05/13/10 14:40

Matrix: Ground Water **Sampled:** 05/13/10 12:30 **Work Order:** C005859

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 17:18	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 17:18	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.46**	J	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 17:18	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 17:18	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 17:18	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 17:18	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 17:18	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 17:18	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 17:18	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**2.0**		ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 17:18	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 17:18	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 17:18	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 17:18	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 17:18	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 17:18	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 17:18	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 17:18	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 17:18	JKG	
Benzene [71-43-2] ^	**2.1**		ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 17:18	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 17:18	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 17:18	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 17:18	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 17:18	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 17:18	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 17:18	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 17:18	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.8**	J	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 17:18	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 17:18	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 17:18	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 17:18	JKG	

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Description: 9209-MW7 | **Lab Sample ID:** C005859-01 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 12:30 | **Work Order:** C005859

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
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 17:18	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 17:18	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 17:18	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 17:18	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 17:18	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 17:18	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 17:18	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 17:18	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 17:18	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 17:18	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 17:18	JKG	
Vinyl chloride [75-01-4] ^	**3.1**		ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 17:18	JKG	
Xylenes (Total) [1330-20-7] ^	**0.50**	J	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 17:18	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 17:18*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 17:18*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*93 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 17:18*	*JKG*	

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Description: 9209-MW7 | **Lab Sample ID:** C005859-01 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 12:30 | **Work Order:** C005859

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

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/17/10 22:38	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*40*	*1*	*50.0*	*80 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 22:38*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*76 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 22:38*	*DFM*	
Terphenyl-d14	*42*	*1*	*50.0*	*83 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/17/10 22:38*	*DFM*	

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

Lab Sample ID: C005859-01
Sampled: 05/13/10 12:30
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/14/10 17:09	NLH	

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Description: 9209-MW7 | **Lab Sample ID:** C005859-01 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 12:30 | **Work Order:** C005859

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	05/18/10 10:26	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 12:41	JDH	
Barium [7440-39-3] ^	**49.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 12:41	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 12:41	JDH	
Cadmium [7440-43-9] ^	**0.900**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 12:41	JDH	
Chromium [7440-47-3] ^	**1.64**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 12:41	JDH	
Cobalt [7440-48-4] ^	**32.7**		ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 12:41	JDH	
Copper [7440-50-8] ^	**16.2**		ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 12:41	JDH	
Lead [7439-92-1] ^	**4.14**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 12:41	JDH	
Nickel [7440-02-0] ^	**10.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 12:41	JDH	
Selenium [7782-49-2] ^	**0.889**	J	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 10:26	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 12:41	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 10:26	VLO	
Vanadium [7440-62-2] ^	**4.95**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 12:41	JDH	
Zinc [7440-66-6] ^	**15.6**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 12:41	JDH	

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

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Description: 9209-MW8d | **Lab Sample ID:** C005859-02 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 12:15 | **Work Order:** C005859

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 17:50	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 17:50	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 17:50	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 17:50	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 17:50	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 17:50	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 17:50	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 17:50	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 17:50	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 17:50	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 17:50	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 17:50	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 17:50	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 17:50	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 17:50	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 17:50	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 17:50	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 17:50	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 17:50	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 17:50	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 17:50	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 17:50	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 17:50	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 17:50	JKG	
Chloroform [67-66-3] ^	**0.45**	J	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 17:50	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 17:50	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 17:50	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 17:50	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 17:50	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 17:50	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 17:50	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 17:50	JKG	

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

Lab Sample ID: C005859-02
Sampled: 05/13/10 12:15
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 17:50	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 17:50	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 17:50	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 17:50	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 17:50	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 17:50	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 17:50	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 17:50	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 17:50	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 17:50	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 17:50	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 17:50*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 17:50*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 17:50*	*JKG*	

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

Lab Sample ID: C005859-02
Sampled: 05/13/10 12:15
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/14/10 17:36	NLH	

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

Lab Sample ID: C005859-02
Sampled: 05/13/10 12:15
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	**0.884**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/18/10 10:29	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 12:50	JDH	
Barium [7440-39-3] ^	**24.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 12:50	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 12:50	JDH	
Cadmium [7440-43-9] ^	**0.602**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 12:50	JDH	
Chromium [7440-47-3] ^	**4.79**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 12:50	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 12:50	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 12:50	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 12:50	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 12:50	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 10:29	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 12:50	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 10:29	VLO	
Vanadium [7440-62-2] ^	**4.39**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 12:50	JDH	
Zinc [7440-66-6] ^	**11.9**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 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: C005859-03
Sampled: 05/13/10 10:45
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 18:22	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 18:22	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
1,1-Dichloroethane [75-34-3] ^	**2.5**	J	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 18:22	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 18:22	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 18:22	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 18:22	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 18:22	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 18:22	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 18:22	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 18:22	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 18:22	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 18:22	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 18:22	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 18:22	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 18:22	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 18:22	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 18:22	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 18:22	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 18:22	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 18:22	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 18:22	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 18:22	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 18:22	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 18:22	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 18:22	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 18:22	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 18:22	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 18:22	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 18:22	JKG	
Dichlorodifluoromethane [75-71-8] ^	**0.78**	J	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 18:22	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 18:22	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 18:22	JKG	

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

Lab Sample ID: C005859-03
Sampled: 05/13/10 10:45
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 18:22	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 18:22	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 18:22	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 18:22	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 18:22	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 18:22	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
Tetrachloroethene [127-18-4] ^	**0.64**	J	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 18:22	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 18:22	JKG	
Trichloroethene [79-01-6] ^	**0.59**	J	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 18:22	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 18:22	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 18:22	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 18:22*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 18:22*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 18:22*	*JKG*	

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

Lab Sample ID: C005859-03
Sampled: 05/13/10 10:45
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/17/10 23:05	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*41*	*1*	*50.0*	*82 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 23:05*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*79 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 23:05*	*DFM*	
Terphenyl-d14	*38*	*1*	*50.0*	*76 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/17/10 23:05*	*DFM*	

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

Lab Sample ID: C005859-03
Sampled: 05/13/10 10:45
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/14/10 17:39	NLH	

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

Lab Sample ID: C005859-03
Sampled: 05/13/10 10:45
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/18/10 10:33	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 12:53	JDH	
Barium [7440-39-3] ^	**8.37**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 12:53	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 12:53	JDH	
Cadmium [7440-43-9] ^	**0.466**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 12:53	JDH	
Chromium [7440-47-3] ^	**27.6**		ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 12:53	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 12:53	JDH	
Copper [7440-50-8] ^	**2.93**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 12:53	JDH	
Lead [7439-92-1] ^	**2.54**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 12:53	JDH	
Nickel [7440-02-0] ^	**13.5**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 12:53	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 10:33	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 12:53	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 10:33	VLO	
Vanadium [7440-62-2] ^	**2.61**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 12:53	JDH	
Zinc [7440-66-6] ^	**9.28**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 12:53	JDH	

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

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Description: 9209-MW11d | **Lab Sample ID:** C005859-04 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 09:00 | **Work Order:** C005859

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 18:54	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 18:54	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 18:54	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 18:54	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 18:54	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 18:54	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 18:54	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 18:54	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 18:54	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 18:54	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 18:54	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 18:54	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 18:54	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 18:54	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 18:54	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 18:54	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 18:54	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 18:54	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 18:54	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 18:54	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 18:54	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 18:54	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 18:54	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 18:54	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 18:54	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 18:54	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 18:54	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 18:54	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 18:54	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 18:54	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 18:54	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 18:54	JKG	

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

Lab Sample ID: C005859-04
Sampled: 05/13/10 09:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 18:54	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 18:54	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 18:54	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 18:54	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 18:54	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 18:54	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 18:54	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 18:54	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 18:54	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 18:54	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 18:54	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 18:54*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*101 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 18:54*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 18:54*	*JKG*	

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

Lab Sample ID: C005859-04
Sampled: 05/13/10 09:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/17/10 23:32	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*40*	*1*	*50.0*	*79 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 23:32*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*75 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 23:32*	*DFM*	
Terphenyl-d14	*38*	*1*	*50.0*	*77 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/17/10 23:32*	*DFM*	

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

Lab Sample ID: C005859-04
Sampled: 05/13/10 09:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/19/10 09:50	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 09:50	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/19/10 09:50	JHH	QV-01
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 09:50	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/19/10 09:50	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 09:50	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/19/10 09:50	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/19/10 09:50	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/19/10 09:50	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/19/10 09:50	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/19/10 09:50	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/19/10 09:50	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 09:50	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 09:50	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/19/10 09:50	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 09:50	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/19/10 09:50	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 09:50	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/19/10 09:50	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/19/10 09:50	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/19/10 09:50	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.81*	*1*	*1.00*	*81 %*	*44-134*	*0E18020*	*EPA 8081B*	*05/19/10 09:50*	*JHH*	
Decachlorobiphenyl	*0.50*	*1*	*1.00*	*50 %*	*37-149*	*0E18020*	*EPA 8081B*	*05/19/10 09:50*	*JHH*	

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

Lab Sample ID: C005859-04
Sampled: 05/13/10 09:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/14/10 17:42	NLH	

www.encolabs.com

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

Lab Sample ID: C005859-04
Sampled: 05/13/10 09:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	**1.01**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/18/10 10:37	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 12:55	JDH	
Barium [7440-39-3] ^	**47.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 12:55	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 12:55	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 12:55	JDH	
Chromium [7440-47-3] ^	**5.10**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 12:55	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 12:55	JDH	
Copper [7440-50-8] ^	**3.10**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 12:55	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 12:55	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 12:55	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 10:37	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 12:55	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 10:37	VLO	
Vanadium [7440-62-2] ^	**5.50**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 12:55	JDH	
Zinc [7440-66-6] ^	**12.3**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 12:55	JDH	

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

Lab Sample ID: C005859-04
Sampled: 05/13/10 09:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.053	U	ug/L	1	0.053	0.50	2	EPA 8151A	05/24/10 16:20	RGG	
2,4,5-TP (Silvex) [93-72-1]	0.056	U	ug/L	1	0.056	0.50	2	EPA 8151A	05/24/10 16:20	RGG	
2,4-D [94-75-7]	0.091	U	ug/L	1	0.091	0.50	2	EPA 8151A	05/24/10 16:20	RGG	
Dinoseb [88-85-7]	0.28	U	ug/L	1	0.28	0.50	1	EPA 8151A	05/24/10 16:20	RGG	
Pentachlorophenol [87-86-5] ^	0.043	U	ug/L	1	0.043	0.50	25	EPA 8151A	05/24/10 16:20	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.1*	*1*	*2.00*	*106 %*	*68-139*	*0E20038*	*EPA 8151A*	*05/24/10 16:20*	*RGG*	

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Description: 9209-MW23 | **Lab Sample ID:** C005859-05 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 13:10 | **Work Order:** C005859

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 19:26	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 19:26	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 19:26	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 19:26	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 19:26	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 19:26	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 19:26	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 19:26	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 19:26	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 19:26	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 19:26	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 19:26	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 19:26	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 19:26	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 19:26	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 19:26	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 19:26	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 19:26	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 19:26	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 19:26	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 19:26	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 19:26	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 19:26	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 19:26	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 19:26	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 19:26	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 19:26	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 19:26	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 19:26	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 19:26	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 19:26	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 19:26	JKG	

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Description: 9209-MW23 | **Lab Sample ID:** C005859-05 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 13:10 | **Work Order:** C005859

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 19:26	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 19:26	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 19:26	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 19:26	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 19:26	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 19:26	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 19:26	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 19:26	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 19:26	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 19:26	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 19:26	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 19:26*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 19:26*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 19:26*	*JKG*	

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Description: 9209-MW23 | **Lab Sample ID:** C005859-05 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 13:10 | **Work Order:** C005859

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

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/17/10 23:59	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*41*	*1*	*50.0*	*82 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 23:59*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*78 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/17/10 23:59*	*DFM*	
Terphenyl-d14	*40*	*1*	*50.0*	*80 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/17/10 23:59*	*DFM*	

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Description: 9209-MW23
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-05
Sampled: 05/13/10 13:10
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/14/10 17:45	NLH	

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Description: 9209-MW23 | **Lab Sample ID:** C005859-05 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 13:10 | **Work Order:** C005859

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	05/18/10 10:40	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 12:58	JDH	
Barium [7440-39-3] ^	**124**		ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 12:58	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 12:58	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 12:58	JDH	
Chromium [7440-47-3] ^	**23.8**		ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 12:58	JDH	
Cobalt [7440-48-4] ^	**9.69**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 12:58	JDH	
Copper [7440-50-8] ^	**45.6**		ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 12:58	JDH	
Lead [7439-92-1] ^	**23.6**		ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 12:58	JDH	
Nickel [7440-02-0] ^	**12.8**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 12:58	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 10:40	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 12:58	JDH	
Thallium [7440-28-0] ^	**0.348**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 10:40	VLO	
Vanadium [7440-62-2] ^	**52.0**		ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 12:58	JDH	
Zinc [7440-66-6] ^	**81.7**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 12:58	JDH	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-06
Sampled: 05/13/10 10:30
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 19:57	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 19:57	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 19:57	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 19:57	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 19:57	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 19:57	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 19:57	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 19:57	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 19:57	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 19:57	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 19:57	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 19:57	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 19:57	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 19:57	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 19:57	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 19:57	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 19:57	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 19:57	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 19:57	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 19:57	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 19:57	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 19:57	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 19:57	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 19:57	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 19:57	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 19:57	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 19:57	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 19:57	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 19:57	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 19:57	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 19:57	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 19:57	JKG	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-06
Sampled: 05/13/10 10:30
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 19:57	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 19:57	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 19:57	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 19:57	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 19:57	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 19:57	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 19:57	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 19:57	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 19:57	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 19:57	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 19:57	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 19:57*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 19:57*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 19:57*	*JKG*	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-06
Sampled: 05/13/10 10:30
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/18/10 00:27	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*40*	*1*	*50.0*	*80 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/18/10 00:27*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*77 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/18/10 00:27*	*DFM*	
Terphenyl-d14	*34*	*1*	*50.0*	*69 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/18/10 00:27*	*DFM*	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-06
Sampled: 05/13/10 10:30
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/14/10 17:48	NLH	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-06
Sampled: 05/13/10 10:30
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	**2.10**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/18/10 10:44	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 13:00	JDH	
Barium [7440-39-3] ^	**41.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 13:00	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 13:00	JDH	
Cadmium [7440-43-9] ^	**0.593**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 13:00	JDH	
Chromium [7440-47-3] ^	**5.43**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 13:00	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 13:00	JDH	
Copper [7440-50-8] ^	**3.27**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 13:00	JDH	
Lead [7439-92-1] ^	**2.06**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:00	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 13:00	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 10:44	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:00	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 10:44	VLO	
Vanadium [7440-62-2] ^	**7.12**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 13:00	JDH	
Zinc [7440-66-6] ^	**39.3**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 13:00	JDH	

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

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Description: 9209-MW24 | **Lab Sample ID:** C005859-07 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 12:50 | **Work Order:** C005859

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 20:29	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 20:29	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 20:29	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 20:29	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 20:29	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 20:29	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 20:29	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 20:29	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 20:29	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 20:29	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 20:29	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 20:29	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 20:29	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 20:29	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 20:29	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 20:29	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 20:29	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 20:29	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 20:29	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 20:29	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 20:29	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 20:29	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 20:29	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 20:29	JKG	
Chloroform [67-66-3] ^	**13**		ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 20:29	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 20:29	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 20:29	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 20:29	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 20:29	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 20:29	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 20:29	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 20:29	JKG	

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Description: 9209-MW24 | **Lab Sample ID:** C005859-07 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 12:50 | **Work Order:** C005859

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 20:29	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 20:29	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 20:29	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 20:29	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 20:29	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 20:29	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 20:29	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 20:29	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 20:29	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 20:29	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 20:29	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 20:29*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 20:29*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 20:29*	*JKG*	

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Description: 9209-MW24 | **Lab Sample ID:** C005859-07 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 12:50 | **Work Order:** C005859

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

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/18/10 00:53	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*41*	*1*	*50.0*	*81 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/18/10 00:53*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*76 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/18/10 00:53*	*DFM*	
Terphenyl-d14	*39*	*1*	*50.0*	*78 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/18/10 00:53*	*DFM*	

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Description:	9209-MW24	**Lab Sample ID:**	C005859-07	**Received:**	05/13/10 14:40
Matrix:	Ground Water	**Sampled:**	05/13/10 12:50	**Work Order:**	C005859
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] ^	**0.197**	J	ug/L	1	0.170	0.200	0.2	EPA 7470A	05/14/10 17:50	NLH	

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Description: 9209-MW24 | **Lab Sample ID:** C005859-07 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 12:50 | **Work Order:** C005859

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	05/18/10 10:47	VLO	
Arsenic [7440-38-2] ^	**2.98**	J	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 13:03	JDH	
Barium [7440-39-3] ^	**82.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 13:03	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 13:03	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 13:03	JDH	
Chromium [7440-47-3] ^	**6.43**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 13:03	JDH	
Cobalt [7440-48-4] ^	**3.42**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 13:03	JDH	
Copper [7440-50-8] ^	**9.23**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 13:03	JDH	
Lead [7439-92-1] ^	**13.2**		ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:03	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 13:03	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 10:47	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:03	JDH	
Thallium [7440-28-0] ^	**0.241**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 10:47	VLO	
Vanadium [7440-62-2] ^	**13.9**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 13:03	JDH	
Zinc [7440-66-6] ^	**87.7**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 13:03	JDH	

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

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Description: 9209-MW28 | **Lab Sample ID:** C005859-08 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 13:45 | **Work Order:** C005859

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 21:00	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 21:00	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 21:00	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 21:00	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 21:00	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 21:00	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 21:00	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 21:00	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 21:00	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 21:00	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 21:00	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 21:00	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 21:00	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 21:00	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 21:00	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 21:00	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 21:00	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 21:00	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 21:00	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 21:00	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 21:00	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 21:00	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 21:00	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 21:00	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 21:00	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 21:00	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 21:00	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 21:00	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 21:00	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 21:00	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 21:00	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 21:00	JKG	

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Description: 9209-MW28 | **Lab Sample ID:** C005859-08 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 13:45 | **Work Order:** C005859

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

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 21:00	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 21:00	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 21:00	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 21:00	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 21:00	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 21:00	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 21:00	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 21:00	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 21:00	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 21:00	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 21:00	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 21:00*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 21:00*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 21:00*	*JKG*	

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Description: 9209-MW28 | **Lab Sample ID:** C005859-08 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 13:45 | **Work Order:** C005859

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/19/10 10:03	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:03	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/19/10 10:03	JHH	QV-01
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:03	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/19/10 10:03	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:03	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/19/10 10:03	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/19/10 10:03	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/19/10 10:03	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/19/10 10:03	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/19/10 10:03	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/19/10 10:03	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:03	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:03	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/19/10 10:03	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:03	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/19/10 10:03	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:03	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/19/10 10:03	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/19/10 10:03	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/19/10 10:03	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.77*	*1*	*1.00*	*77 %*	*44-134*	*0E18020*	*EPA 8081B*	*05/19/10 10:03*	*JHH*	
Decachlorobiphenyl	*0.74*	*1*	*1.00*	*74 %*	*37-149*	*0E18020*	*EPA 8081B*	*05/19/10 10:03*	*JHH*	

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Description: 9209-MW28
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-08
Sampled: 05/13/10 13:45
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/14/10 17:54	NLH	

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Description: 9209-MW28 | **Lab Sample ID:** C005859-08 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 13:45 | **Work Order:** C005859

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	05/18/10 10:58	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 13:05	JDH	
Barium [7440-39-3] ^	**35.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 13:05	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 13:05	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 13:05	JDH	
Chromium [7440-47-3] ^	**6.55**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 13:05	JDH	
Cobalt [7440-48-4] ^	**1.35**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 13:05	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 13:05	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:05	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 13:05	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 10:58	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:05	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 10:58	VLO	
Vanadium [7440-62-2] ^	**7.87**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 13:05	JDH	
Zinc [7440-66-6] ^	**17.6**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 13:05	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-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-09
Sampled: 05/13/10 07:30
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 21:30	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 21:30	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 21:30	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 21:30	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 21:30	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 21:30	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 21:30	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 21:30	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 21:30	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 21:30	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 21:30	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 21:30	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 21:30	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 21:30	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 21:30	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 21:30	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 21:30	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 21:30	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 21:30	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 21:30	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 21:30	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 21:30	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 21:30	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 21:30	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 21:30	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 21:30	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 21:30	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 21:30	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 21:30	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 21:30	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 21:30	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 21:30	JKG	

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Description: 9209-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-09
Sampled: 05/13/10 07:30
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 21:30	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 21:30	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 21:30	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 21:30	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 21:30	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 21:30	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 21:30	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 21:30	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 21:30	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 21:30	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 21:30	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 21:30*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 21:30*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 21:30*	*JKG*	

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Description: 9209-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-09
Sampled: 05/13/10 07:30
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/18/10 01:20	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*39*	*1*	*50.0*	*77 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/18/10 01:20*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*74 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/18/10 01:20*	*DFM*	
Terphenyl-d14	*33*	*1*	*50.0*	*66 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/18/10 01:20*	*DFM*	

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Description: 9209-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-09
Sampled: 05/13/10 07:30
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/14/10 17:57	NLH	

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Description: 9209-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-09
Sampled: 05/13/10 07:30
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/18/10 11:02	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 13:07	JDH	
Barium [7440-39-3] ^	**7.52**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 13:07	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 13:07	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 13:07	JDH	
Chromium [7440-47-3] ^	**2.21**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 13:07	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 13:07	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 13:07	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:07	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 13:07	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 11:02	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:07	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 11:02	VLO	
Vanadium [7440-62-2] ^	**3.05**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 13:07	JDH	
Zinc [7440-66-6] ^	**8.79**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 13:07	JDH	

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

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Description: 9209-MW29d | **Lab Sample ID:** C005859-10 | **Received:** 05/13/10 14:40

Matrix: Ground Water | **Sampled:** 05/13/10 08:00 | **Work Order:** C005859

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 22:00	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 22:00	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 22:00	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 22:00	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 22:00	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 22:00	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 22:00	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 22:00	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 22:00	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 22:00	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 22:00	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 22:00	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 22:00	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 22:00	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 22:00	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 22:00	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 22:00	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 22:00	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 22:00	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 22:00	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 22:00	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 22:00	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 22:00	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 22:00	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 22:00	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 22:00	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 22:00	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 22:00	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 22:00	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 22:00	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 22:00	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 22:00	JKG	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-10
Sampled: 05/13/10 08:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 22:00	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 22:00	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 22:00	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 22:00	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 22:00	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 22:00	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 22:00	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 22:00	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 22:00	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 22:00	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 22:00	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 22:00*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 22:00*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 22:00*	*JKG*	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-10
Sampled: 05/13/10 08:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/18/10 01:48	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*39*	*1*	*50.0*	*79 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/18/10 01:48*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*74 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/18/10 01:48*	*DFM*	
Terphenyl-d14	*34*	*1*	*50.0*	*69 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/18/10 01:48*	*DFM*	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-10
Sampled: 05/13/10 08:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/19/10 10:16	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:16	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/19/10 10:16	JHH	QV-01
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:16	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/19/10 10:16	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:16	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/19/10 10:16	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/19/10 10:16	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/19/10 10:16	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/19/10 10:16	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/19/10 10:16	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/19/10 10:16	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:16	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:16	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/19/10 10:16	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:16	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/19/10 10:16	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:16	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/19/10 10:16	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/19/10 10:16	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/19/10 10:16	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.77*	*1*	*1.00*	*77 %*	*44-134*	*0E18020*	*EPA 8081B*	*05/19/10 10:16*	*JHH*	
Decachlorobiphenyl	*0.65*	*1*	*1.00*	*65 %*	*37-149*	*0E18020*	*EPA 8081B*	*05/19/10 10:16*	*JHH*	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-10
Sampled: 05/13/10 08:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/14/10 18:06	NLH	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-10
Sampled: 05/13/10 08:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/18/10 11:05	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 13:10	JDH	
Barium [7440-39-3] ^	**38.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 13:10	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 13:10	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 13:10	JDH	
Chromium [7440-47-3] ^	**4.33**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 13:10	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 13:10	JDH	
Copper [7440-50-8] ^	**2.61**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 13:10	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:10	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 13:10	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 11:05	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:10	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 11:05	VLO	
Vanadium [7440-62-2] ^	**3.10**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 13:10	JDH	
Zinc [7440-66-6] ^	**23.0**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 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-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-11
Sampled: 05/13/10 11:20
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 22:29	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 22:29	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
1,1-Dichloroethane [75-34-3] ^	**12**		ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 22:29	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 22:29	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 22:29	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 22:29	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 22:29	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 22:29	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 22:29	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**0.58**	J	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 22:29	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 22:29	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 22:29	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 22:29	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 22:29	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 22:29	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 22:29	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 22:29	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 22:29	JKG	
Benzene [71-43-2] ^	**0.58**	J	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 22:29	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 22:29	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 22:29	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 22:29	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 22:29	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 22:29	JKG	
Chloroform [67-66-3] ^	**0.50**	J	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 22:29	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 22:29	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**4.4**	J	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 22:29	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 22:29	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 22:29	JKG	
Dichlorodifluoromethane [75-71-8] ^	**2.5**	J	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 22:29	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 22:29	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 22:29	JKG	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-11
Sampled: 05/13/10 11:20
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 22:29	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 22:29	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 22:29	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 22:29	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 22:29	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 22:29	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
Tetrachloroethene [127-18-4] ^	**1.2**		ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 22:29	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 22:29	JKG	
Trichloroethene [79-01-6] ^	**1.6**		ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 22:29	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 22:29	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 22:29	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 22:29*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 22:29*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 22:29*	*JKG*	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-11
Sampled: 05/13/10 11:20
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/18/10 02:15	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*32*	*1*	*50.0*	*64 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/18/10 02:15*	*DFM*	
Nitrobenzene-d5	*28*	*1*	*50.0*	*56 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/18/10 02:15*	*DFM*	
Terphenyl-d14	*31*	*1*	*50.0*	*62 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/18/10 02:15*	*DFM*	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-11
Sampled: 05/13/10 11:20
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/19/10 10:30	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:30	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/19/10 10:30	JHH	QV-01
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:30	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/19/10 10:30	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:30	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/19/10 10:30	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/19/10 10:30	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/19/10 10:30	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/19/10 10:30	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/19/10 10:30	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/19/10 10:30	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:30	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:30	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/19/10 10:30	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:30	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/19/10 10:30	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:30	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/19/10 10:30	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/19/10 10:30	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/19/10 10:30	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.86*	*1*	*1.00*	*86 %*	*44-134*	*0E18020*	*EPA 8081B*	*05/19/10 10:30*	*JHH*	
Decachlorobiphenyl	*0.80*	*1*	*1.00*	*80 %*	*37-149*	*0E18020*	*EPA 8081B*	*05/19/10 10:30*	*JHH*	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-11
Sampled: 05/13/10 11:20
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/14/10 18:09	NLH	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-11
Sampled: 05/13/10 11:20
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/18/10 11:09	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 13:13	JDH	
Barium [7440-39-3] ^	**105**		ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 13:13	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 13:13	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 13:13	JDH	
Chromium [7440-47-3] ^	**30.6**		ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 13:13	JDH	
Cobalt [7440-48-4] ^	**5.53**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 13:13	JDH	
Copper [7440-50-8] ^	**32.4**		ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 13:13	JDH	
Lead [7439-92-1] ^	**2.42**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:13	JDH	
Nickel [7440-02-0] ^	**13.6**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 13:13	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 11:09	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:13	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 11:09	VLO	
Vanadium [7440-62-2] ^	**32.2**		ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 13:13	JDH	
Zinc [7440-66-6] ^	**25.0**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 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-DUP
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C005859-12
Sampled: 05/13/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 22:58	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 22:58	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
1,1-Dichloroethane [75-34-3] ^	**12**		ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 22:58	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 22:58	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 22:58	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 22:58	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 22:58	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 22:58	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 22:58	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**0.62**	J	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 22:58	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 22:58	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 22:58	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 22:58	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 22:58	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 22:58	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 22:58	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 22:58	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 22:58	JKG	
Benzene [71-43-2] ^	**0.49**	J	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 22:58	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 22:58	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 22:58	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 22:58	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 22:58	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 22:58	JKG	
Chloroform [67-66-3] ^	**0.51**	J	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 22:58	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 22:58	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**4.3**	J	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 22:58	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 22:58	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 22:58	JKG	
Dichlorodifluoromethane [75-71-8] ^	**2.4**	J	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 22:58	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 22:58	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 22:58	JKG	

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Description: 9209-DUP | **Lab Sample ID:** C005859-12 | **Received:** 05/13/10 14:40
Matrix: Ground Water | **Sampled:** 05/13/10 10:00 | **Work Order:** C005859
Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 22:58	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 22:58	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 22:58	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 22:58	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 22:58	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 22:58	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
Tetrachloroethene [127-18-4] ^	**1.4**		ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 22:58	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 22:58	JKG	
Trichloroethene [79-01-6] ^	**1.6**		ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 22:58	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 22:58	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 22:58	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 22:58*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 22:58*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 22:58*	*JKG*	

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/19/10 19:57	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*43*	*1*	*50.0*	*86 %*	*10-149*	*0E19015*	*EPA 8270D*	*05/19/10 19:57*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*78 %*	*10-149*	*0E19015*	*EPA 8270D*	*05/19/10 19:57*	*DFM*	
Terphenyl-d14	*36*	*1*	*50.0*	*72 %*	*10-188*	*0E19015*	*EPA 8270D*	*05/19/10 19:57*	*DFM*	

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/19/10 10:43	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:43	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/19/10 10:43	JHH	QV-01
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:43	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/19/10 10:43	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:43	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/19/10 10:43	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/19/10 10:43	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/19/10 10:43	JHH	

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

Lab Sample ID: C005859-12
Sampled: 05/13/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/19/10 10:43	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/19/10 10:43	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/19/10 10:43	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:43	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:43	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/19/10 10:43	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:43	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/19/10 10:43	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:43	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/19/10 10:43	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/19/10 10:43	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/19/10 10:43	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.79*	*1*	*1.00*	*79 %*	*44-134*	*0E18020*	*EPA 8081B*	*05/19/10 10:43*	*JHH*	
Decachlorobiphenyl	*0.74*	*1*	*1.00*	*74 %*	*37-149*	*0E18020*	*EPA 8081B*	*05/19/10 10:43*	*JHH*	

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

Lab Sample ID: C005859-12
Sampled: 05/13/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/14/10 18:12	NLH	

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

Lab Sample ID: C005859-12
Sampled: 05/13/10 10:00
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/18/10 09:39	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 13:22	JDH	
Barium [7440-39-3] ^	**126**		ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 13:22	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 13:22	JDH	
Cadmium [7440-43-9] ^	**0.374**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 13:22	JDH	
Chromium [7440-47-3] ^	**44.2**		ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 13:22	JDH	
Cobalt [7440-48-4] ^	**7.51**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 13:22	JDH	
Copper [7440-50-8] ^	**43.0**		ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 13:22	JDH	
Lead [7439-92-1] ^	**2.67**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:22	JDH	
Nickel [7440-02-0] ^	**18.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 13:22	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 09:39	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 13:22	JDH	
Thallium [7440-28-0] ^	**0.167**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 09:39	VLO	
Vanadium [7440-62-2] ^	**41.3**		ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 13:22	JDH	
Zinc [7440-66-6] ^	**34.4**		ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 13:22	JDH	

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

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

Lab Sample ID: C005859-13
Sampled: 05/13/10 08:45
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 15:45	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/15/10 15:45	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/15/10 15:45	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/15/10 15:45	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/15/10 15:45	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/15/10 15:45	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/15/10 15:45	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/15/10 15:45	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/15/10 15:45	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/15/10 15:45	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/15/10 15:45	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/15/10 15:45	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 15:45	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/15/10 15:45	JKG	
Acetone [67-64-1] ^	**5.0**	J	ug/L	1	1.5	5.0	100	EPA 8260B	05/15/10 15:45	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/15/10 15:45	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/15/10 15:45	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/15/10 15:45	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/15/10 15:45	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/15/10 15:45	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/15/10 15:45	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/15/10 15:45	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/15/10 15:45	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/15/10 15:45	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/15/10 15:45	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/15/10 15:45	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/15/10 15:45	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/15/10 15:45	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/15/10 15:45	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/15/10 15:45	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/15/10 15:45	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/15/10 15:45	JKG	

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

Lab Sample ID: C005859-13
Sampled: 05/13/10 08:45
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/15/10 15:45	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/15/10 15:45	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/15/10 15:45	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/15/10 15:45	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/15/10 15:45	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/15/10 15:45	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
Toluene [108-88-3] ^	**0.41**	J	ug/L	1	0.053	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/15/10 15:45	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/15/10 15:45	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/15/10 15:45	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/15/10 15:45	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/15/10 15:45	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*51-122*	*0E15001*	*EPA 8260B*	*05/15/10 15:45*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*68-117*	*0E15001*	*EPA 8260B*	*05/15/10 15:45*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*69-110*	*0E15001*	*EPA 8260B*	*05/15/10 15:45*	*JKG*	

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] ^	2.6	U	ug/L	1	2.6	5.0	15	EPA 8270D	05/18/10 03:09	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*41*	*1*	*50.0*	*81 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/18/10 03:09*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*74 %*	*10-149*	*0E17006*	*EPA 8270D*	*05/18/10 03:09*	*DFM*	
Terphenyl-d14	*47*	*1*	*50.0*	*94 %*	*10-188*	*0E17006*	*EPA 8270D*	*05/18/10 03:09*	*DFM*	

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

Lab Sample ID: C005859-13
Sampled: 05/13/10 08:45
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/19/10 10:56	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:56	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	05/19/10 10:56	JHH	QV-01
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:56	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	05/19/10 10:56	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:56	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	05/19/10 10:56	JHH	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	05/19/10 10:56	JHH	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	05/19/10 10:56	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	05/19/10 10:56	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/19/10 10:56	JHH	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	05/19/10 10:56	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:56	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:56	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	05/19/10 10:56	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	05/19/10 10:56	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	05/19/10 10:56	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	05/19/10 10:56	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	05/19/10 10:56	JHH	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	05/19/10 10:56	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	05/19/10 10:56	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.79*	*1*	*1.00*	*79 %*	*44-134*	*0E18020*	*EPA 8081B*	*05/19/10 10:56*	*JHH*	
Decachlorobiphenyl	*0.71*	*1*	*1.00*	*71 %*	*37-149*	*0E18020*	*EPA 8081B*	*05/19/10 10:56*	*JHH*	

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

Lab Sample ID: C005859-13
Sampled: 05/13/10 08:45
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/14/10 18:15	NLH	

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

Lab Sample ID: C005859-13
Sampled: 05/13/10 08:45
Sampled By: Aaron Weispfenning

Received: 05/13/10 14:40
Work Order: C005859

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	05/18/10 11:12	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/14/10 12:05	JDH	
Barium [7440-39-3] ^	1.00	U	ug/L	1	1.00	10.0	100	EPA 6010C	05/14/10 12:05	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/14/10 12:05	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/14/10 12:05	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/14/10 12:05	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/14/10 12:05	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/14/10 12:05	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 12:05	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/14/10 12:05	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 11:12	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/14/10 12:05	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 11:12	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/14/10 12:05	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	05/14/10 12:05	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 0E14013 - EPA 5030B_MS

Blank (0E14013-BLK1) Prepared: 05/14/2010 10:22 Analyzed: 05/14/2010 12:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,1-Dichloropropene	0.063	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.097	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,3-Dichlorobenzene	0.092	U	1.0	ug/L							
1,3-Dichloropropane	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2,2-Dichloropropane	0.12	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
3-Chloropropene	0.28	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acetonitrile	2.8	U	10	ug/L							
Acrolein	3.0	U	10	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
Chloroprene	0.24	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Dichlorodifluoromethane	0.091	U	1.0	ug/L							
Ethyl Methacrylate	0.32	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Hexachlorobutadiene	0.15	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Isobutyl alcohol	14	U	50	ug/L							
Methacrylonitrile	2.8	U	10	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E14013 - EPA 5030B_MS

Blank (0E14013-BLK1) Continued Prepared: 05/14/2010 10:22 Analyzed: 05/14/2010 12:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl Methacrylate	0.53	U	1.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Naphthalene	0.086	U	1.0	ug/L							
Propionitrile	4.8	U	10	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*69-110*			

LCS (0E14013-BS1) Prepared: 05/14/2010 10:22 Analyzed: 05/14/2010 13:02

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		93	75-133			
Benzene	19		1.0	ug/L	20.0		97	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	20		1.0	ug/L	20.0		100	71-118			
Trichloroethene	18		1.0	ug/L	20.0		90	75-115			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*69-110*			

Matrix Spike (0E14013-MS1) Prepared: 05/14/2010 10:22 Analyzed: 05/14/2010 13:34

Source: C005860-06

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	0.15 U	97	75-133			
Benzene	20		1.0	ug/L	20.0	0.050 U	100	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.069 U	97	83-117			
Toluene	20		1.0	ug/L	20.0	0.053 U	100	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	99	75-115			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*93*	*69-110*			

Matrix Spike Dup (0E14013-MSD1) Prepared: 05/14/2010 10:22 Analyzed: 05/14/2010 14:06

Source: C005860-06

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E14013 - EPA 5030B_MS

Matrix Spike Dup (0E14013-MSD1) Continued Prepared: 05/14/2010 10:22 Analyzed: 05/14/2010 14:06

Source: C005860-06

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	0.15 U	96	75-133	1	20	
Benzene	20		1.0	ug/L	20.0	0.050 U	101	81-134	0.8	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	98	83-117	1	16	
Toluene	20		1.0	ug/L	20.0	0.053 U	102	71-118	2	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	98	75-115	1	18	
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*69-110*			

Batch 0E15001 - EPA 5030B_MS

Blank (0E15001-BLK1) Prepared: 05/15/2010 08:27 Analyzed: 05/15/2010 12:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,1-Dichloropropene	0.063	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.097	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,3-Dichlorobenzene	0.092	U	1.0	ug/L							
1,3-Dichloropropane	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2,2-Dichloropropane	0.12	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
3-Chloropropene	0.28	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acetonitrile	2.8	U	10	ug/L							
Acrolein	3.0	U	10	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E15001 - EPA 5030B_MS

Blank (0E15001-BLK1) Continued Prepared: 05/15/2010 08:27 Analyzed: 05/15/2010 12:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
Chloroprene	0.24	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Dichlorodifluoromethane	0.091	U	1.0	ug/L							
Ethyl Methacrylate	0.32	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Hexachlorobutadiene	0.15	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Isobutyl alcohol	14	U	50	ug/L							
Methacrylonitrile	2.8	U	10	ug/L							
Methyl Methacrylate	0.53	U	1.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Naphthalene	0.086	U	1.0	ug/L							
Propionitrile	4.8	U	10	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*85*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*97*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*69-110*			

LCS (0E15001-BS1) Prepared: 05/15/2010 08:27 Analyzed: 05/15/2010 13:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0		131	75-133			
Benzene	25		1.0	ug/L	20.0		124	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		104	83-117			
Toluene	21		1.0	ug/L	20.0		104	71-118			
Trichloroethene	21		1.0	ug/L	20.0		103	75-115			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E15001 - EPA 5030B_MS

Matrix Spike (0E15001-MS1) Prepared: 05/15/2010 08:27 Analyzed: 05/15/2010 13:44

Source: C005860-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0	0.15 U	128	75-133			
Benzene	24		1.0	ug/L	20.0	0.050 U	122	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	100	83-117			
Toluene	20		1.0	ug/L	20.0	0.053 U	100	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	102	75-115			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*97*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*85*	*69-110*			

Matrix Spike Dup (0E15001-MSD1) Prepared: 05/15/2010 08:27 Analyzed: 05/15/2010 14:14

Source: C005860-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.15 U	121	75-133	6	20	
Benzene	24		1.0	ug/L	20.0	0.050 U	122	81-134	0	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	100	83-117	0.05	16	
Toluene	20		1.0	ug/L	20.0	0.053 U	101	71-118	2	17	
Trichloroethene	19		1.0	ug/L	20.0	0.13 U	95	75-115	7	18	
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*95*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0E17006 - EPA 3510C_MS

Blank (0E17006-BLK1) Prepared: 05/17/2010 08:41 Analyzed: 05/17/2010 15:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bis(2-ethylhexyl)phthalate	2.6	U	5.0	ug/L							
Surrogate: 2,4,6-Tribromophenol	*86*			*ug/L*	*100*		*86*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*42*			*ug/L*	*50.0*		*84*	*10-149*			
Surrogate: 2-Fluorophenol	*65*			*ug/L*	*100*		*65*	*10-110*			
Surrogate: Nitrobenzene-d5	*41*			*ug/L*	*50.0*		*82*	*10-149*			
Surrogate: Phenol-d5	*58*			*ug/L*	*100*		*58*	*10-88*			
Surrogate: Terphenyl-d14	*48*			*ug/L*	*50.0*		*95*	*10-188*			

LCS (0E17006-BS1) Prepared: 05/17/2010 08:41 Analyzed: 05/17/2010 15:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	39		10	ug/L	50.0		78	40-109			
4-Chloro-3-methylphenol	45		10	ug/L	50.0		90	58-121			
4-Nitrophenol	34		10	ug/L	50.0		68	33-105			
Acenaphthene	41		10	ug/L	50.0		82	43-118			
N-Nitroso-di-n-propylamine	42		10	ug/L	50.0		83	48-126			
Phenol	27		10	ug/L	50.0		54	19-78			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0E17006 - EPA 3510C_MS

LCS (0E17006-BS1) Continued Prepared: 05/17/2010 08:41 Analyzed: 05/17/2010 15:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Pyrene	44		10	ug/L	50.0		88	65-134			
Surrogate: 2,4,6-Tribromophenol	*93*			*ug/L*	*100*		*93*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*41*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: 2-Fluorophenol	*62*			*ug/L*	*100*		*62*	*10-110*			
Surrogate: Nitrobenzene-d5	*41*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: Phenol-d5	*53*			*ug/L*	*100*		*53*	*10-88*			
Surrogate: Terphenyl-d14	*44*			*ug/L*	*50.0*		*88*	*10-188*			

Matrix Spike (0E17006-MS1) Prepared: 05/17/2010 08:41 Analyzed: 05/17/2010 16:23

Source: C005860-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	31		10	ug/L	50.0	1.9 U	61	40-109			
4-Chloro-3-methylphenol	37		10	ug/L	50.0	1.6 U	74	58-121			
4-Nitrophenol	32		10	ug/L	50.0	1.2 U	63	33-105			
Acenaphthene	35		10	ug/L	50.0	1.1 U	70	43-118			
N-Nitroso-di-n-propylamine	33		10	ug/L	50.0	1.8 U	67	48-126			
Phenol	21		10	ug/L	50.0	1.2 U	43	19-78			
Pyrene	42		10	ug/L	50.0	1.3 U	84	65-134			
Surrogate: 2,4,6-Tribromophenol	*83*			*ug/L*	*100*		*83*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*34*			*ug/L*	*50.0*		*67*	*10-149*			
Surrogate: 2-Fluorophenol	*47*			*ug/L*	*100*		*47*	*10-110*			
Surrogate: Nitrobenzene-d5	*32*			*ug/L*	*50.0*		*64*	*10-149*			
Surrogate: Phenol-d5	*41*			*ug/L*	*100*		*41*	*10-88*			
Surrogate: Terphenyl-d14	*42*			*ug/L*	*50.0*		*85*	*10-188*			

Matrix Spike Dup (0E17006-MSD1) Prepared: 05/17/2010 08:41 Analyzed: 05/17/2010 16:50

Source: C005860-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	31		10	ug/L	50.0	1.9 U	62	40-109	1	22	
4-Chloro-3-methylphenol	40		10	ug/L	50.0	1.6 U	79	58-121	7	22	
4-Nitrophenol	34		10	ug/L	50.0	1.2 U	68	33-105	7	27	
Acenaphthene	38		10	ug/L	50.0	1.1 U	76	43-118	8	21	
N-Nitroso-di-n-propylamine	35		10	ug/L	50.0	1.8 U	70	48-126	5	23	
Phenol	22		10	ug/L	50.0	1.2 U	44	19-78	4	18	
Pyrene	43		10	ug/L	50.0	1.3 U	87	65-134	3	16	
Surrogate: 2,4,6-Tribromophenol	*87*			*ug/L*	*100*		*87*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*35*			*ug/L*	*50.0*		*70*	*10-149*			
Surrogate: 2-Fluorophenol	*49*			*ug/L*	*100*		*49*	*10-110*			
Surrogate: Nitrobenzene-d5	*33*			*ug/L*	*50.0*		*67*	*10-149*			
Surrogate: Phenol-d5	*42*			*ug/L*	*100*		*42*	*10-88*			
Surrogate: Terphenyl-d14	*45*			*ug/L*	*50.0*		*90*	*10-188*			

Batch 0E19015 - EPA 3510C_MS

Blank (0E19015-BLK1) Prepared: 05/19/2010 09:27 Analyzed: 05/19/2010 17:19

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0E19015 - EPA 3510C_MS

Blank (0E19015-BLK1) Continued Prepared: 05/19/2010 09:27 Analyzed: 05/19/2010 17:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bis(2-ethylhexyl)phthalate	2.6	U	5.0	ug/L							
Surrogate: 2,4,6-Tribromophenol	*92*			*ug/L*	*100*		*92*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*42*			*ug/L*	*50.0*		*83*	*10-149*			
Surrogate: 2-Fluorophenol	*60*			*ug/L*	*100*		*60*	*10-110*			
Surrogate: Nitrobenzene-d5	*37*			*ug/L*	*50.0*		*75*	*10-149*			
Surrogate: Phenol-d5	*50*			*ug/L*	*100*		*50*	*10-88*			
Surrogate: Terphenyl-d14	*46*			*ug/L*	*50.0*		*92*	*10-188*			

LCS (0E19015-BS1) Prepared: 05/19/2010 09:27 Analyzed: 05/19/2010 17:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	39		10	ug/L	50.0		77	40-109			
4-Chloro-3-methylphenol	47		10	ug/L	50.0		94	58-121			
4-Nitrophenol	34		10	ug/L	50.0		69	33-105			
Acenaphthene	42		10	ug/L	50.0		84	43-118			
N-Nitroso-di-n-propylamine	40		10	ug/L	50.0		81	48-126			
Phenol	26		10	ug/L	50.0		52	19-78			
Pyrene	45		10	ug/L	50.0		89	65-134			
Surrogate: 2,4,6-Tribromophenol	*100*			*ug/L*	*100*		*100*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*42*			*ug/L*	*50.0*		*83*	*10-149*			
Surrogate: 2-Fluorophenol	*60*			*ug/L*	*100*		*60*	*10-110*			
Surrogate: Nitrobenzene-d5	*41*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: Phenol-d5	*50*			*ug/L*	*100*		*50*	*10-88*			
Surrogate: Terphenyl-d14	*44*			*ug/L*	*50.0*		*89*	*10-188*			

Matrix Spike (0E19015-MS1) Prepared: 05/19/2010 09:27 Analyzed: 05/19/2010 18:54

Source: C005984-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	36		10	ug/L	50.0	1.9 U	72	40-109			
4-Chloro-3-methylphenol	44		10	ug/L	50.0	1.6 U	89	58-121			
4-Nitrophenol	33		10	ug/L	50.0	1.2 U	66	33-105			
Acenaphthene	40		10	ug/L	50.0	1.1 U	79	43-118			
N-Nitroso-di-n-propylamine	38		10	ug/L	50.0	1.8 U	76	48-126			
Phenol	25		10	ug/L	50.0	1.2 U	50	19-78			
Pyrene	43		10	ug/L	50.0	1.3 U	87	65-134			
Surrogate: 2,4,6-Tribromophenol	*96*			*ug/L*	*100*		*96*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*38*			*ug/L*	*50.0*		*77*	*10-149*			
Surrogate: 2-Fluorophenol	*56*			*ug/L*	*100*		*56*	*10-110*			
Surrogate: Nitrobenzene-d5	*38*			*ug/L*	*50.0*		*75*	*10-149*			
Surrogate: Phenol-d5	*47*			*ug/L*	*100*		*47*	*10-88*			
Surrogate: Terphenyl-d14	*43*			*ug/L*	*50.0*		*86*	*10-188*			

Matrix Spike Dup (0E19015-MSD1) Prepared: 05/19/2010 09:27 Analyzed: 05/19/2010 19:25

Source: C005984-06

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0E19015 - EPA 3510C_MS

Matrix Spike Dup (0E19015-MSD1) Continued Prepared: 05/19/2010 09:27 Analyzed: 05/19/2010 19:25

Source: C005984-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	36		10	ug/L	50.0	1.9 U	71	40-109	0.3	22	
4-Chloro-3-methylphenol	44		10	ug/L	50.0	1.6 U	87	58-121	1	22	
4-Nitrophenol	34		10	ug/L	50.0	1.2 U	68	33-105	3	27	
Acenaphthene	39		10	ug/L	50.0	1.1 U	78	43-118	1	21	
N-Nitroso-di-n-propylamine	38		10	ug/L	50.0	1.8 U	75	48-126	1	23	
Phenol	25		10	ug/L	50.0	1.2 U	49	19-78	1	18	
Pyrene	44		10	ug/L	50.0	1.3 U	88	65-134	2	16	
Surrogate: 2,4,6-Tribromophenol	*97*			*ug/L*	*100*		*97*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*38*			*ug/L*	*50.0*		*77*	*10-149*			
Surrogate: 2-Fluorophenol	*56*			*ug/L*	*100*		*56*	*10-110*			
Surrogate: Nitrobenzene-d5	*35*			*ug/L*	*50.0*		*70*	*10-149*			
Surrogate: Phenol-d5	*47*			*ug/L*	*100*		*47*	*10-88*			
Surrogate: Terphenyl-d14	*46*			*ug/L*	*50.0*		*92*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 0E18020 - EPA 3510C

Blank (0E18020-BLK1) Prepared: 05/18/2010 10:35 Analyzed: 05/19/2010 08:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.013	U	0.050	ug/L							
4,4'-DDE	0.012	U	0.050	ug/L							
4,4'-DDT	0.015	U	0.050	ug/L							QV-01
Aldrin	0.012	U	0.050	ug/L							
alpha-BHC	0.015	U	0.050	ug/L							
beta-BHC	0.012	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.014	U	0.050	ug/L							
Chlordane-gamma	0.012	U	0.050	ug/L							
delta-BHC	0.014	U	0.050	ug/L							
Dieldrin	0.0089	U	0.050	ug/L							
Endosulfan I	0.016	U	0.050	ug/L							
Endosulfan II	0.012	U	0.050	ug/L							
Endosulfan sulfate	0.012	U	0.050	ug/L							
Endrin	0.013	U	0.050	ug/L							
Endrin aldehyde	0.012	U	0.050	ug/L							
gamma-BHC	0.016	U	0.050	ug/L							
Heptachlor	0.012	U	0.050	ug/L							
Heptachlor epoxide	0.0089	U	0.050	ug/L							
Methoxychlor	0.016	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.84*			*ug/L*	*1.00*		*84*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.81*			*ug/L*	*1.00*		*81*	*37-149*			

LCS (0E18020-BS1) Prepared: 05/18/2010 10:35 Analyzed: 05/19/2010 08:56

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 0E18020 - EPA 3510C

LCS (0E18020-BS1) Continued Prepared: 05/18/2010 10:35 Analyzed: 05/19/2010 08:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.2		0.050	ug/L	1.00		123	37-139			
Dieldrin	1.1		0.050	ug/L	1.00		106	46-132			
Endrin	1.1		0.050	ug/L	1.00		106	43-133			
Surrogate: 2,4,5,6-TCMX	*0.74*			*ug/L*	*1.00*		*74*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.79*			*ug/L*	*1.00*		*79*	*37-149*			

Matrix Spike (0E18020-MS1) Prepared: 05/18/2010 10:35 Analyzed: 05/19/2010 09:10

Source: C005984-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.3		0.050	ug/L	1.00	0.015 U	131	37-139			
Dieldrin	1.1		0.050	ug/L	1.00	0.0089 U	114	46-132			
Endrin	1.1		0.050	ug/L	1.00	0.013 U	114	43-133			
Surrogate: 2,4,5,6-TCMX	*0.82*			*ug/L*	*1.00*		*82*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.77*			*ug/L*	*1.00*		*77*	*37-149*			

Matrix Spike Dup (0E18020-MSD1) Prepared: 05/18/2010 10:35 Analyzed: 05/19/2010 09:23

Source: C005984-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.2		0.050	ug/L	1.00	0.015 U	124	37-139	6	26	
Dieldrin	1.1		0.050	ug/L	1.00	0.0089 U	108	46-132	5	27	
Endrin	1.1		0.050	ug/L	1.00	0.013 U	107	43-133	6	26	
Surrogate: 2,4,5,6-TCMX	*0.78*			*ug/L*	*1.00*		*78*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.76*			*ug/L*	*1.00*		*76*	*37-149*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0E14015 - EPA 245.1

Blank (0E14015-BLK1) Prepared: 05/14/2010 10:33 Analyzed: 05/14/2010 17:03

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 (0E14015-BS1) Prepared: 05/14/2010 10:33 Analyzed: 05/14/2010 17:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.34		0.200	ug/L	5.00		107	85-115			

Matrix Spike (0E14015-MS1) Prepared: 05/14/2010 10:33 Analyzed: 05/14/2010 17:12

Source: C005859-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.19		0.200	ug/L	5.00	0.170 U	104	85-115			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0E14015 - EPA 245.1

Matrix Spike Dup (0E14015-MSD1) Prepared: 05/14/2010 10:33 Analyzed: 05/14/2010 17:15

Source: C005859-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.11		0.200	ug/L	5.00	0.170 U	102	85-115	2	15	

Post Spike (0E14015-PS1) Prepared: 05/14/2010 10:33 Analyzed: 05/14/2010 17:18

Source: C005859-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.25		0.200	ug/L	5.00	-0.00880	85	75-125			

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

Batch 0E13037 - EPA 3005A

Blank (0E13037-BLK1) Prepared: 05/13/2010 15:26 Analyzed: 05/14/2010 12:01

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 (0E13037-BS1) Prepared: 05/13/2010 15:26 Analyzed: 05/14/2010 12:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1050		10.0	ug/L	1000		105	80-120			
Barium	1050		10.0	ug/L	1000		105	80-120			
Beryllium	535		1.00	ug/L	500		107	80-120			
Cadmium	527		1.00	ug/L	500		105	80-120			
Chromium	1050		10.0	ug/L	1000		105	80-120			
Cobalt	1030		10.0	ug/L	1000		103	80-120			
Copper	532		10.0	ug/L	500		106	80-120			
Lead	1040		10.0	ug/L	1000		104	80-120			
Nickel	1040		10.0	ug/L	1000		104	80-120			
Silver	98.8		10.0	ug/L	100		99	80-120			
Vanadium	514		10.0	ug/L	500		103	80-120			
Zinc	1050		10.0	ug/L	1000		105	80-120			

Matrix Spike (0E13037-MS1) Prepared: 05/13/2010 15:26 Analyzed: 05/14/2010 12:08

Source: C005859-13

QUALITY CONTROL

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

Batch 0E13037 - EPA 3005A

Matrix Spike (0E13037-MS1) Continued Prepared: 05/13/2010 15:26 Analyzed: 05/14/2010 12:08

Source: C005859-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1060		10.0	ug/L	1000	2.80 U	106	75-125			
Barium	1060		10.0	ug/L	1000	1.00 U	106	75-125			
Beryllium	538		1.00	ug/L	500	0.100 U	108	75-125			
Cadmium	533		1.00	ug/L	500	0.360 U	107	75-125			
Chromium	1070		10.0	ug/L	1000	1.00 U	107	75-125			
Cobalt	1040		10.0	ug/L	1000	1.10 U	104	75-125			
Copper	540		10.0	ug/L	500	1.60 U	108	75-125			
Lead	1060		10.0	ug/L	1000	1.90 U	106	75-125			
Nickel	1050		10.0	ug/L	1000	1.80 U	105	75-125			
Silver	99.0		10.0	ug/L	100	1.90 U	99	75-125			
Vanadium	521		10.0	ug/L	500	1.40 U	104	75-125			
Zinc	1070		10.0	ug/L	1000	3.80 U	107	75-125			

Matrix Spike Dup (0E13037-MSD1) Prepared: 05/13/2010 15:26 Analyzed: 05/14/2010 12:18

Source: C005859-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1080		10.0	ug/L	1000	2.80 U	108	75-125	1	20	
Barium	1070		10.0	ug/L	1000	1.00 U	107	75-125	0.6	20	
Beryllium	543		1.00	ug/L	500	0.100 U	109	75-125	0.9	20	
Cadmium	535		1.00	ug/L	500	0.360 U	107	75-125	0.3	20	
Chromium	1070		10.0	ug/L	1000	1.00 U	107	75-125	0.3	20	
Cobalt	1050		10.0	ug/L	1000	1.10 U	105	75-125	0.4	20	
Copper	542		10.0	ug/L	500	1.60 U	108	75-125	0.5	20	
Lead	1070		10.0	ug/L	1000	1.90 U	107	75-125	1	20	
Nickel	1060		10.0	ug/L	1000	1.80 U	106	75-125	0.4	20	
Silver	98.9		10.0	ug/L	100	1.90 U	99	75-125	0.1	20	
Vanadium	522		10.0	ug/L	500	1.40 U	104	75-125	0.2	20	
Zinc	1070		10.0	ug/L	1000	3.80 U	107	75-125	0.03	20	

Post Spike (0E13037-PS1) Prepared: 05/13/2010 15:26 Analyzed: 05/14/2010 12:21

Source: C005859-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.11		0.0100	mg/L	1.00	0.000951	111	80-120			
Barium	1.10		0.0100	mg/L	1.00	0.000630	110	80-120			
Beryllium	0.562		0.00100	mg/L	0.500	8.62E-5	112	80-120			
Cadmium	0.554		0.00100	mg/L	0.500	0.000114	111	80-120			
Chromium	1.11		0.0100	mg/L	1.00	0.000115	111	80-120			
Cobalt	1.08		0.0100	mg/L	1.00	0.000494	108	80-120			
Copper	0.561		0.0100	mg/L	0.500	0.000583	112	80-120			
Lead	1.10		0.0100	mg/L	1.00	-0.00123	110	80-120			
Nickel	1.09		0.0100	mg/L	1.00	0.000159	109	80-120			
Silver	0.0964		0.0100	mg/L	0.100	6.30E-5	96	80-120			
Vanadium	0.541		0.0100	mg/L	0.500	0.000179	108	80-120			
Zinc	1.11		0.0100	mg/L	1.00	0.000802	111	80-120			

QUALITY CONTROL

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

Batch 0E13037 - EPA 3005A

Batch 0E13038 - EPA 3005A

Blank (0E13038-BLK1) Prepared: 05/13/2010 15:28 Analyzed: 05/18/2010 09:32

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 (0E13038-BS1) Prepared: 05/13/2010 15:28 Analyzed: 05/18/2010 09:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.7		2.00	ug/L	25.0		107	80-120			
Selenium	26.6		1.00	ug/L	25.0		107	80-120			
Thallium	27.2		1.00	ug/L	25.0		109	80-120			

Matrix Spike (0E13038-MS1) Prepared: 05/13/2010 15:28 Analyzed: 05/18/2010 09:43

Source: C005859-12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	21.9		2.00	ug/L	25.0	0.220 U	88	75-125			
Selenium	25.8		1.00	ug/L	25.0	0.830 U	103	75-125			
Thallium	24.6		1.00	ug/L	25.0	0.167	98	75-125			

Matrix Spike Dup (0E13038-MSD1) Prepared: 05/13/2010 15:28 Analyzed: 05/18/2010 09:46

Source: C005859-12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	21.7		2.00	ug/L	25.0	0.220 U	87	75-125	1	20	
Selenium	25.0		1.00	ug/L	25.0	0.830 U	100	75-125	3	20	
Thallium	25.4		1.00	ug/L	25.0	0.167	101	75-125	3	20	

Post Spike (0E13038-PS1) Prepared: 05/13/2010 15:28 Analyzed: 05/18/2010 09:50

Source: C005859-12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.8		2.00	ug/L	25.0	0.211	106	80-120			
Selenium	27.4		1.00	ug/L	25.0	-0.180	110	80-120			
Thallium	25.4		1.00	ug/L	25.0	0.167	101	80-120			

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 0E20038 - EPA 3510C

Blank (0E20038-BLK1) Prepared: 05/20/2010 12:34 Analyzed: 05/24/2010 12:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.053	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.056	U	0.50	ug/L							

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 0E20038 - EPA 3510C

Blank (0E20038-BLK1) Continued Prepared: 05/20/2010 12:34 Analyzed: 05/24/2010 12:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	0.091	U	0.50	ug/L							
Dinoseb	0.28	U	0.50	ug/L							
Pentachlorophenol	0.043	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*104*	*68-139*			

LCS (0E20038-BS1) Prepared: 05/20/2010 12:34 Analyzed: 05/24/2010 13:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.0		0.50	ug/L	2.00		98	68-154			
2,4-D	1.9		0.50	ug/L	2.00		93	62-144			
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*104*	*68-139*			

Matrix Spike (0E20038-MS1) Prepared: 05/20/2010 12:34 Analyzed: 05/24/2010 13:30

Source: A002596-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.0		0.50	ug/L	2.00	0.056 U	98	68-154			
2,4-D	2.0		0.50	ug/L	2.00	0.091 U	98	62-144			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*100*	*68-139*			

Matrix Spike Dup (0E20038-MSD1) Prepared: 05/20/2010 12:34 Analyzed: 05/24/2010 13:54

Source: A002596-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.1		0.50	ug/L	2.00	0.056 U	104	68-154	6	15	
2,4-D	2.0		0.50	ug/L	2.00	0.091 U	100	62-144	2	33	
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*110*	*68-139*			

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.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: ~~C005241~~ C005859

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	8081B Appendix 2	8081B Appendix 2, 8151A Appendix 2, 8270D Appendix 2	8081B Appendix 2, 8270D Appendix 2	8260B Appendix 1	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	Sample Comments
	~~9209-MW5R~~				~~GW~~	~~20~~	X				X		X	X	X	X	Report Results
	~~9209-MW6~~				~~GW~~	~~21~~			X		X		X	X	X	X	including SWS limits
	~~9209-MW6d~~				~~GW~~	~~4~~					X		X				Report "J" values
	9209-MW7	5-13-10	1230	G	GW	5					X	X	X				provide edd in
	~~9209-MW8~~				~~GW~~	~~19~~					X		X	X	X	X	SWS format
	9209-MW8d	5-13-10	1215	G	GW	4					X		X				
	~~9209-MW9~~				~~GW~~	~~21~~			X		X		X	X	X	X	
	~~9209-MW10~~				~~GW~~	~~20~~					X	X	X	X	X	X	
	9209-MW10d	5-13-10	1045	G	GW	5					X	X	X				
	~~9209-MW11~~				~~GW~~	~~22~~		X			X		X	X	X	X	
	9209-MW11d	5-13-10	900	G	GW	7		X			X		X				
	~~9209-MW22~~				~~GW~~	~~6~~			X		X		X				

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	5-13-10 1440	Briana Gregory	5/13/10 14:40
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-772 2.1°C C-623 1.5°C C-770 1.7°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

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

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

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

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Page 2 of 6

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: ~~C005241~~ C005859

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	Fatty Acids	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B	Sample Comments
	~~9209-MW5R~~				GW	20	X	X	X	X	X	X		X	X	X	See page 1
	~~9209-MW6~~				GW	21	X	X	X	X	X	X		X	X	X	
	~~9209-MW6d~~				GW	4			X								
	9209-MW7	5-13-10	1230	G	GW	5			X								
	~~9209-MW8~~				GW	19	X	X	X	X	X	X		X	X	X	
	9209-MW8d	5-13-10	1215	G	GW	4			X								
	~~9209-MW9~~				GW	21	X	X	X		X	X	X	X	X	X	
	~~9209-MW10~~				GW	20	X	X	X		X	X	X	X	X	X	
	9209-MW10d	5-13-10	1045	G	GW	5			X								
	~~9209-MW11~~				GW	22	X	X	X		X	X	X	X	X	X	
	9209-MW11d	5-13-10	900	G	GW	7			X								
	~~9209-MW22~~				GW	6			X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 5-13-10 1440	Received By: Briana Hugery	Date/Time: 5/13/10 14:40
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-772 2.1°C C-623 1.5°C C-770 1.7°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

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

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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 5 of 6

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required)

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: ~~C005241~~ C005859

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8081B Appendix 2,8151A Appendix 2,8270D Appendix 2	8081B Appendix 2,8270D Appendix 2	8260B Appendix 1	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	Sample Comments
	9209-MW23	5-13-10	1310	G	GW	5					X	X	X				See page 1
	9209-MW23d	5-13-10	1030	G	GW	5					X	X	X				
	9209-MW24	5-13-10	1250	G	GW	5					X	X	X				
	9209-MW28	5-13-10	1345	G	GW	5	X				X		X				
	9209-MW28d	5-13-10	730	G	GW	5					X	X	X				
	9209-MW29d	5-13-10	800	G	GW	6			X		X		X				
	~~9209-MW30~~				GW	5	X				X		X				
	~~9209-MW31~~				GW	5	X				X		X				
	~~9209-MW31d~~				GW	5					X	X	X				
	~~9209-MW32~~				GW	4					X		X				
	~~9209-TB1a~~				GW	5	X				X		X				
	~~9209-TB1ad~~				GW	4					X		X				

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 5-13-10 1440	Received By: Buana Henry	Date/Time: 5/13/10 14:40
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-772 2.1°C C-623 1.5°C C-770 1.7°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

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

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

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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required)

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: ~~C005241~~ C005859

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Fatty Acids	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B	Sample Comments
	9209-MW23	5-13-10	1310	G	GW	5			X								See page 1
	9209-MW23d	5-13-10	1030	G	GW	5			X								
	9209-MW24	5-13-10	1250	G	GW	5			X								
	9209-MW28	5-13-10	1345		GW	5			X								
	9209-MW28d	5-13-10	730	G	GW	5			X								
	9209-MW29d	5-13-10	800	G	GW	6			X								
	~~9209-MW30~~				GW	5			X								
	~~9209-MW~~31				GW	5			X								
	~~9209-MW31~~d				GW	5			X								
	92~~09-MW32~~				GW	4			X								
	~~9209-TBT~~a				GW	5			X								
	~~9209-TBT~~ad				GW	4			X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 5-13-10 1440	Received By: Briana Gregory	Date/Time: 5/13/10 14:40
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-772 2.1°C C-623 1.5°C C-770 1.7°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

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

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

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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required)

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: ~~C005241~~ C005859

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8081B Appendix 2, 8151A Appendix 2, 8270D Appendix 2	8081B Appendix 2, 8270D Appendix 2	8260B Appendix 1	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	Sample Comments
	~~9209-MW33~~				GW	5	X				X		X				See page 1
	~~9209-MW34~~				GW	4					X		X				
	~~9209-MW34d~~				GW	5					X	X	X				
	~~9209-MW35~~				GW	4					X		X				
	~~9209-MW36~~				GW	21			X		X		X	X	X	X	
	9209-MW36d	5-13-10	1120	G	GW	6			X		X		X				
	9209-DUP	5-13-10	1000	G	GW	6			X		X		X				
	9209-EQBlank	5-13-10	845	G	WA	6			X		X		X				
	~~9209-TripBlank~~				WA	2				X							

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 5-13-10 1440	Received By: Briana Hagery	Date/Time: 5/13/10 14:40
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-772 2.1°C C-623 1.5°C C-770 1.7°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

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

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

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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info:
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

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	Fatty Acids	Fe/Ferrous	Hg	Hydrogen, RSK 175 + CO2	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B	Sample Comments
	~~9209-MW33~~				GW	5			X								See page 1
	~~9209-MW34~~				GW	4			X								
	~~9209-MW34d~~				GW	5			X								
	~~9209-MW35~~				GW	4			X								
	~~9209-MW36~~				GW	21	X	X	X		X	X	X	X	X	X	
	9209-MW36d	5-13-10	1120	G	GW	6			X								
	9209-DUP	5-13-10	1000	G	GW	6			X								
	9209-EQBlank	5-13-10	845	G	WA	6			X								
	~~9209-TripBlank~~				WA	2											

<-- Total # of Containers

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: ~~C005241~~ C005859

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time 5-13-10 1440	Received By: Buena Gregory	Date/Time 5/13/10 14:40
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-772 2.1°C C-623 1.5°C C-770 1.7°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

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

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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

Monday, May 24, 2010

CDM (CD004)

Attn: Aaron Weispfenning

5400 GLENWOOD AVE SUITE 300

RALEIGH, NC 27612-

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: N Wake Unlined Surface Waters
ENCO Workorder: C005243

Dear Aaron Weispfenning,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, May 13, 2010.

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

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

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

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

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 22.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 9209-SW2 **Lab ID: C005243-01** **Sampled: 05/13/10 13:25** **Received: 05/13/10 14:40**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/09/10	05/14/10 10:39	5/17/2010 11:54
EPA 6020A	11/09/10	05/14/10 11:00	5/18/2010 10:04
EPA 8260B	05/27/10	05/14/10 10:22	5/14/2010 15:09

Client ID: 9209-SW3 **Lab ID: C005243-02** **Sampled: 05/11/10 14:05** **Received: 05/13/10 14:40**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/07/10	05/14/10 10:39	5/17/2010 11:56
EPA 6020A	11/07/10	05/14/10 11:00	5/18/2010 10:15
EPA 8260B	05/25/10	05/14/10 10:22	5/14/2010 15:41

Client ID: 9209-SW7 **Lab ID: C005243-03** **Sampled: 05/13/10 11:45** **Received: 05/13/10 14:40**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/09/10	05/14/10 10:39	5/17/2010 11:59
EPA 6020A	11/09/10	05/14/10 11:00	5/18/2010 10:19
EPA 8260B	05/27/10	05/14/10 10:22	5/14/2010 16:13

Client ID: 9209-SW8 **Lab ID: C005243-04** **Sampled: 05/11/10 14:45** **Received: 05/13/10 14:40**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/07/10	05/14/10 10:39	5/17/2010 12:02
EPA 6020A	11/07/10	05/14/10 11:00	5/18/2010 10:22
EPA 8260B	05/25/10	05/14/10 10:22	5/14/2010 16:46

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 9209-SW2 **Lab ID: C005243-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	33.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	1.05	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.62	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Zinc - Total	4.98	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-SW3 **Lab ID: C005243-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	28.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Vanadium - Total	1.60	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-SW7 **Lab ID: C005243-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.61	J	1	0.050	1.0	5	ug/L	EPA 8260B	
Barium - Total	25.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Vanadium - Total	1.44	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 9209-SW8 **Lab ID: C005243-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	21.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 9209-SW2 **Lab Sample ID:** C005243-01 **Received:** 05/13/10 14:40

Matrix: Surface Water **Sampled:** 05/13/10 13:25 **Work Order:** C005243

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 15:09	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 15:09	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 15:09	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 15:09	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 15:09	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 15:09	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 15:09	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 15:09	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 15:09	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 15:09	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 15:09	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 15:09	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 15:09	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 15:09	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 15:09	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 15:09	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 15:09	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 15:09	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 15:09	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 15:09	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 15:09	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 15:09	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 15:09	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 15:09	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 15:09	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 15:09	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 15:09	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 15:09	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 15:09	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 15:09	JKG	

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Description: 9209-SW2 | **Lab Sample ID:** C005243-01 | **Received:** 05/13/10 14:40

Matrix: Surface Water | **Sampled:** 05/13/10 13:25 | **Work Order:** C005243

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
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 15:09	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 15:09	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 15:09	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 15:09	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 15:09	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 15:09	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 15:09	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 15:09	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 15:09	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 15:09	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 15:09	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 15:09	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 15:09	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 15:09*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 15:09*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 15:09*	*JKG*	

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Description: 9209-SW2 | **Lab Sample ID:** C005243-01 | **Received:** 05/13/10 14:40

Matrix: Surface Water | **Sampled:** 05/13/10 13:25 | **Work Order:** C005243

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	05/18/10 10:04	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/17/10 11:54	JDH	
Barium [7440-39-3] ^	**33.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/17/10 11:54	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/17/10 11:54	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/17/10 11:54	JDH	
Chromium [7440-47-3] ^	**1.05**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/17/10 11:54	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/17/10 11:54	JDH	
Copper [7440-50-8] ^	**1.62**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/17/10 11:54	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/17/10 11:54	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/17/10 11:54	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 10:04	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/17/10 11:54	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 10:04	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/17/10 11:54	JDH	
Zinc [7440-66-6] ^	**4.98**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/17/10 11:54	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-SW3 | **Lab Sample ID:** C005243-02 | **Received:** 05/13/10 14:40

Matrix: Surface Water | **Sampled:** 05/11/10 14:05 | **Work Order:** C005243

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 15:41	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 15:41	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 15:41	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 15:41	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 15:41	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 15:41	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 15:41	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 15:41	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 15:41	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 15:41	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 15:41	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 15:41	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 15:41	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 15:41	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 15:41	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 15:41	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 15:41	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 15:41	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 15:41	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 15:41	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 15:41	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 15:41	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 15:41	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 15:41	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 15:41	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 15:41	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 15:41	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 15:41	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 15:41	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 15:41	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 15:41	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 15:41	JKG	

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Description: 9209-SW3 | **Lab Sample ID:** C005243-02 | **Received:** 05/13/10 14:40

Matrix: Surface Water | **Sampled:** 05/11/10 14:05 | **Work Order:** C005243

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
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 15:41	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 15:41	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 15:41	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 15:41	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 15:41	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 15:41	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 15:41	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 15:41	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 15:41	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 15:41	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 15:41	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*95 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 15:41*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 15:41*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 15:41*	*JKG*	

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Description: 9209-SW3 | **Lab Sample ID:** C005243-02 | **Received:** 05/13/10 14:40

Matrix: Surface Water | **Sampled:** 05/11/10 14:05 | **Work Order:** C005243

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	05/18/10 10:15	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/17/10 11:56	JDH	
Barium [7440-39-3] ^	**28.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/17/10 11:56	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/17/10 11:56	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/17/10 11:56	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/17/10 11:56	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/17/10 11:56	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/17/10 11:56	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/17/10 11:56	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/17/10 11:56	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 10:15	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/17/10 11:56	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 10:15	VLO	
Vanadium [7440-62-2] ^	**1.60**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/17/10 11:56	JDH	
Zinc [7440-66-6] ^	**4.62**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/17/10 11:56	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-SW7 | **Lab Sample ID:** C005243-03 | **Received:** 05/13/10 14:40

Matrix: Surface Water | **Sampled:** 05/13/10 11:45 | **Work Order:** C005243

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 16:13	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 16:13	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.61**	J	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 16:13	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 16:13	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 16:13	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 16:13	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 16:13	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 16:13	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 16:13	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 16:13	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 16:13	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 16:13	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 16:13	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 16:13	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 16:13	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 16:13	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 16:13	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 16:13	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 16:13	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 16:13	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 16:13	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 16:13	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 16:13	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 16:13	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 16:13	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 16:13	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 16:13	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 16:13	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 16:13	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 16:13	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 16:13	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 16:13	JKG	

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Description: 9209-SW7 | **Lab Sample ID:** C005243-03 | **Received:** 05/13/10 14:40

Matrix: Surface Water | **Sampled:** 05/13/10 11:45 | **Work Order:** C005243

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
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 16:13	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 16:13	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 16:13	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 16:13	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 16:13	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 16:13	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 16:13	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 16:13	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 16:13	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 16:13	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 16:13	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 16:13*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 16:13*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 16:13*	*JKG*	

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Description: 9209-SW7 | **Lab Sample ID:** C005243-03 | **Received:** 05/13/10 14:40

Matrix: Surface Water | **Sampled:** 05/13/10 11:45 | **Work Order:** C005243

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	05/18/10 10:19	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/17/10 11:59	JDH	
Barium [7440-39-3] ^	**25.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/17/10 11:59	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/17/10 11:59	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/17/10 11:59	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/17/10 11:59	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/17/10 11:59	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/17/10 11:59	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/17/10 11:59	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/17/10 11:59	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 10:19	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/17/10 11:59	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 10:19	VLO	
Vanadium [7440-62-2] ^	**1.44**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/17/10 11:59	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	05/17/10 11:59	JDH	

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

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Description: 9209-SW8 | **Lab Sample ID:** C005243-04 | **Received:** 05/13/10 14:40

Matrix: Surface Water | **Sampled:** 05/11/10 14:45 | **Work Order:** C005243

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] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 16:46	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/14/10 16:46	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/14/10 16:46	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/14/10 16:46	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	5	EPA 8260B	05/14/10 16:46	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	10	EPA 8260B	05/14/10 16:46	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/14/10 16:46	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/14/10 16:46	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	5	EPA 8260B	05/14/10 16:46	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	15	EPA 8260B	05/14/10 16:46	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/14/10 16:46	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/14/10 16:46	JKG	
3-Chloropropene [107-05-1] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 16:46	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/14/10 16:46	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/14/10 16:46	JKG	
Acetonitrile [75-05-8] ^	2.8	U	ug/L	1	2.8	10	55	EPA 8260B	05/14/10 16:46	JKG	
Acrolein [107-02-8] ^	3.0	U	ug/L	1	3.0	10	53	EPA 8260B	05/14/10 16:46	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/14/10 16:46	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/14/10 16:46	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/14/10 16:46	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/14/10 16:46	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/14/10 16:46	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/14/10 16:46	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/14/10 16:46	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/14/10 16:46	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
Chloroprene [126-99-8] ^	0.24	U	ug/L	1	0.24	1.0	20	EPA 8260B	05/14/10 16:46	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/14/10 16:46	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/14/10 16:46	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/14/10 16:46	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	05/14/10 16:46	JKG	
Ethyl Methacrylate [97-63-2] ^	0.32	U	ug/L	1	0.32	1.0	10	EPA 8260B	05/14/10 16:46	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	10	EPA 8260B	05/14/10 16:46	JKG	

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Description: 9209-SW8 | **Lab Sample ID:** C005243-04 | **Received:** 05/13/10 14:40

Matrix: Surface Water | **Sampled:** 05/11/10 14:45 | **Work Order:** C005243

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
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/14/10 16:46	JKG	
Isobutyl alcohol [78-83-1] ^	14	U	ug/L	1	14	50	100	EPA 8260B	05/14/10 16:46	JKG	
Methacrylonitrile [126-98-7] ^	2.8	U	ug/L	1	2.8	10	100	EPA 8260B	05/14/10 16:46	JKG	
Methyl Methacrylate [80-62-6] ^	0.53	U	ug/L	1	0.53	1.0	30	EPA 8260B	05/14/10 16:46	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	10	EPA 8260B	05/14/10 16:46	JKG	
Propionitrile [107-12-0] ^	4.8	U	ug/L	1	4.8	10	150	EPA 8260B	05/14/10 16:46	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/14/10 16:46	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/14/10 16:46	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/14/10 16:46	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/14/10 16:46	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/14/10 16:46	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*51-122*	*0E14013*	*EPA 8260B*	*05/14/10 16:46*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*68-117*	*0E14013*	*EPA 8260B*	*05/14/10 16:46*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*93 %*	*69-110*	*0E14013*	*EPA 8260B*	*05/14/10 16:46*	*JKG*	

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Description: 9209-SW8 | **Lab Sample ID:** C005243-04 | **Received:** 05/13/10 14:40

Matrix: Surface Water | **Sampled:** 05/11/10 14:45 | **Work Order:** C005243

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	05/18/10 10:22	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/17/10 12:02	JDH	
Barium [7440-39-3] ^	**21.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/17/10 12:02	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/17/10 12:02	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/17/10 12:02	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/17/10 12:02	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/17/10 12:02	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/17/10 12:02	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/17/10 12:02	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/17/10 12:02	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/18/10 10:22	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/17/10 12:02	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/18/10 10:22	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/17/10 12:02	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	05/17/10 12:02	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 0E14013 - EPA 5030B_MS

Blank (0E14013-BLK1) Prepared: 05/14/2010 10:22 Analyzed: 05/14/2010 12:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,1-Dichloropropene	0.063	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.097	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,3-Dichlorobenzene	0.092	U	1.0	ug/L							
1,3-Dichloropropane	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2,2-Dichloropropane	0.12	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
3-Chloropropene	0.28	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acetonitrile	2.8	U	10	ug/L							
Acrolein	3.0	U	10	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
Chloroprene	0.24	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Dichlorodifluoromethane	0.091	U	1.0	ug/L							
Ethyl Methacrylate	0.32	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Hexachlorobutadiene	0.15	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Isobutyl alcohol	14	U	50	ug/L							
Methacrylonitrile	2.8	U	10	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E14013 - EPA 5030B_MS

Blank (0E14013-BLK1) Continued Prepared: 05/14/2010 10:22 Analyzed: 05/14/2010 12:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl Methacrylate	0.53	U	1.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Naphthalene	0.086	U	1.0	ug/L							
Propionitrile	4.8	U	10	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*69-110*			

LCS (0E14013-BS1) Prepared: 05/14/2010 10:22 Analyzed: 05/14/2010 13:02

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		93	75-133			
Benzene	19		1.0	ug/L	20.0		97	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	20		1.0	ug/L	20.0		100	71-118			
Trichloroethene	18		1.0	ug/L	20.0		90	75-115			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*69-110*			

Matrix Spike (0E14013-MS1) Prepared: 05/14/2010 10:22 Analyzed: 05/14/2010 13:34

Source: C005860-06

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	0.15 U	97	75-133			
Benzene	20		1.0	ug/L	20.0	0.050 U	100	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.069 U	97	83-117			
Toluene	20		1.0	ug/L	20.0	0.053 U	100	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	99	75-115			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*93*	*69-110*			

Matrix Spike Dup (0E14013-MSD1) Prepared: 05/14/2010 10:22 Analyzed: 05/14/2010 14:06

Source: C005860-06

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E14013 - EPA 5030B_MS

Matrix Spike Dup (0E14013-MSD1) Continued Prepared: 05/14/2010 10:22 Analyzed: 05/14/2010 14:06

Source: C005860-06

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	0.15 U	96	75-133	1	20	
Benzene	20		1.0	ug/L	20.0	0.050 U	101	81-134	0.8	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	98	83-117	1	16	
Toluene	20		1.0	ug/L	20.0	0.053 U	102	71-118	2	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	98	75-115	1	18	
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*69-110*			

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

Batch 0E13038 - EPA 3005A

Blank (0E13038-BLK1) Prepared: 05/13/2010 15:28 Analyzed: 05/18/2010 09:32

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 (0E13038-BS1) Prepared: 05/13/2010 15:28 Analyzed: 05/18/2010 09:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.7		2.00	ug/L	25.0		107	80-120			
Selenium	26.6		1.00	ug/L	25.0		107	80-120			
Thallium	27.2		1.00	ug/L	25.0		109	80-120			

Matrix Spike (0E13038-MS1) Prepared: 05/13/2010 15:28 Analyzed: 05/18/2010 09:43

Source: C005859-12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	21.9		2.00	ug/L	25.0	0.220 U	88	75-125			
Selenium	25.8		1.00	ug/L	25.0	0.830 U	103	75-125			
Thallium	24.6		1.00	ug/L	25.0	0.167	98	75-125			

Matrix Spike Dup (0E13038-MSD1) Prepared: 05/13/2010 15:28 Analyzed: 05/18/2010 09:46

Source: C005859-12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	21.7		2.00	ug/L	25.0	0.220 U	87	75-125	1	20	
Selenium	25.0		1.00	ug/L	25.0	0.830 U	100	75-125	3	20	
Thallium	25.4		1.00	ug/L	25.0	0.167	101	75-125	3	20	

Post Spike (0E13038-PS1) Prepared: 05/13/2010 15:28 Analyzed: 05/18/2010 09:50

Source: C005859-12

QUALITY CONTROL

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

Batch 0E13038 - EPA 3005A

Post Spike (0E13038-PS1) Continued Prepared: 05/13/2010 15:28 Analyzed: 05/18/2010 09:50

Source: C005859-12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.8		2.00	ug/L	25.0	0.211	106	80-120			
Selenium	27.4		1.00	ug/L	25.0	-0.180	110	80-120			
Thallium	25.4		1.00	ug/L	25.0	0.167	101	80-120			

Batch 0E14016 - EPA 3005A

Blank (0E14016-BLK1) Prepared: 05/14/2010 10:39 Analyzed: 05/17/2010 10:06

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 (0E14016-BS1) Prepared: 05/14/2010 10:39 Analyzed: 05/17/2010 10:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1090		10.0	ug/L	1000		109	80-120			
Barium	1080		10.0	ug/L	1000		108	80-120			
Beryllium	553		1.00	ug/L	500		111	80-120			
Cadmium	545		1.00	ug/L	500		109	80-120			
Chromium	1090		10.0	ug/L	1000		109	80-120			
Cobalt	1060		10.0	ug/L	1000		106	80-120			
Copper	557		10.0	ug/L	500		111	80-120			
Lead	1080		10.0	ug/L	1000		108	80-120			
Nickel	1080		10.0	ug/L	1000		108	80-120			
Silver	103		10.0	ug/L	100		103	80-120			
Vanadium	536		10.0	ug/L	500		107	80-120			
Zinc	1090		10.0	ug/L	1000		109	80-120			

Matrix Spike (0E14016-MS1) Prepared: 05/14/2010 10:39 Analyzed: 05/17/2010 10:17

Source: C004874-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1040		10.0	ug/L	1000	2.80 U	104	75-125			
Barium	1160		10.0	ug/L	1000	95.7	107	75-125			
Beryllium	543		1.00	ug/L	500	0.234	109	75-125			
Cadmium	498		1.00	ug/L	500	0.360 U	100	75-125			
Chromium	1030		10.0	ug/L	1000	1.00 U	103	75-125			

QUALITY CONTROL

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

Batch 0E14016 - EPA 3005A

Matrix Spike (0E14016-MS1) Continued Prepared: 05/14/2010 10:39 Analyzed: 05/17/2010 10:17

Source: C004874-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cobalt	1010		10.0	ug/L	1000	1.10 U	101	75-125			
Copper	552		10.0	ug/L	500	1.60 U	110	75-125			
Lead	981		10.0	ug/L	1000	1.90 U	98	75-125			
Nickel	1000		10.0	ug/L	1000	1.80 U	100	75-125			
Silver	103		10.0	ug/L	100	2.38	101	75-125			
Vanadium	517		10.0	ug/L	500	1.40 U	103	75-125			
Zinc	983		10.0	ug/L	1000	3.80 U	98	75-125			

Matrix Spike Dup (0E14016-MSD1) Prepared: 05/14/2010 10:39 Analyzed: 05/17/2010 10:20

Source: C004874-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	762		10.0	ug/L	1000	2.80 U	76	75-125	31	20	QM-08, QR-02
Barium	1030		10.0	ug/L	1000	95.7	93	75-125	13	20	
Beryllium	542		1.00	ug/L	500	0.234	108	75-125	0.2	20	
Cadmium	438		1.00	ug/L	500	0.360 U	88	75-125	13	20	
Chromium	912		10.0	ug/L	1000	1.00 U	91	75-125	12	20	
Cobalt	895		10.0	ug/L	1000	1.10 U	90	75-125	13	20	
Copper	483		10.0	ug/L	500	1.60 U	97	75-125	13	20	
Lead	711		10.0	ug/L	1000	1.90 U	71	75-125	32	20	QM-07
Nickel	886		10.0	ug/L	1000	1.80 U	89	75-125	12	20	
Silver	92.8		10.0	ug/L	100	2.38	90	75-125	10	20	
Vanadium	457		10.0	ug/L	500	1.40 U	91	75-125	12	20	
Zinc	867		10.0	ug/L	1000	3.80 U	87	75-125	12	20	

Post Spike (0E14016-PS1) Prepared: 05/14/2010 10:39 Analyzed: 05/17/2010 11:20

Source: C004874-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.05		0.0100	mg/L	1.00	-0.00279	105	80-120			
Barium	1.16		0.0100	mg/L	1.00	0.0957	106	80-120			
Beryllium	0.537		0.00100	mg/L	0.500	0.000234	107	80-120			
Cadmium	0.497		0.00100	mg/L	0.500	-0.000390	100	80-120			
Chromium	1.03		0.0100	mg/L	1.00	0.000241	103	80-120			
Cobalt	1.01		0.0100	mg/L	1.00	0.000880	101	80-120			
Copper	0.544		0.0100	mg/L	0.500	-0.00376	110	80-120			
Lead	0.993		0.0100	mg/L	1.00	-0.000693	99	80-120			
Nickel	1.01		0.0100	mg/L	1.00	-0.000602	101	80-120			
Silver	0.0958		0.0100	mg/L	0.100	0.00238	93	80-120			
Vanadium	0.514		0.0100	mg/L	0.500	0.00115	103	80-120			
Zinc	0.987		0.0100	mg/L	1.00	0.00241	98	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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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4810 Executive Park Court, Suite 211
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(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: N Wake Unlined Surface Waters
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning, CDM	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required)

Requested Analyses: 8260B Appendix 2; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn; ~~Hg~~

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C005243

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	~~Hg~~								Sample Comments
	9209-SW2	5-13-10	1325	G	SW	4	X	X	~~X~~								- report results according
	9209-SW3	5-11-10	1405	G	SW	4	X	X	~~X~~								to SWS guidelines
	9209-SW7	5-13-10	1145	G	SW	4	X	X	~~X~~								- provide cdd
	9209-SW8	5-11-10	1445	G	SW	4	X	X	~~X~~								- report "J" values

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	5-13-10 1440	Briana Gurney	5/13/10 14:40
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-450 1.9°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

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

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

www.encolabs.com

MW-11 (Background)
June 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 1

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	○	○	
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	◉	○	-3
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	○	◉	0
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	◉	0
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	◉	0
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	◉	0
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	◉	0
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	○	◉	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	○	◉	0
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.
a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

MW-5R
June 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 13

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	◉	○	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-6
June 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 25

Scroll to End of Table

* reductive dechlorination

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	◉	○	2
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	◉	○	1
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	◉	○	2
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	◉	○	3
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	◉	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/]	◉	○	2
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.
a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

MW-8
June 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 14

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	○	◉	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	◉	○	2
VC*		Daughter product of DCE[a/]	◉	○	2
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.
a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

MW-9
June 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 23

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	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	◉	○	1
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	◉	○	2
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	◉	0
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	◉	○	2
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	○	◉	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	◉	○	2
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

MW-10
June 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* 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	◉	○	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	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	◉	0
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	◉	0
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	◉	○	2
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	◉	○	2
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

MW-36
June 2010

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 17

Scroll to End of Table

* reductive dechlorination

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	◉	○	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	○	◉	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/]	◉	○	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