Wake County,
North Carolina

North Wake Subtitle D 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 Subtitle D Landfill	9004 Deponie Drive Raleigh, NC 27615	92-09	.1600	May 6-7, 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) _____
☐ 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

Signature: Date: 6/29/10

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA SEAL 1051 GEOLOGIST MATTHEW F. COLONE

6/29/2010

Revised 01/2007

CDM

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June 29, 2010

Ms. Jaclynne Drummond
Solid Waste Section
Division of Waste Management
401 Oberlin Road
Suite 150
Raleigh, North Carolina 27605-1350

Subject: May 2010 Semi-Annual Monitoring Sampling Report
North Wake Lined Landfill
Facility Permit # - 92-09

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 most recent semi-annual sampling event that was completed at the North Wake Lined Landfill and constitutes the first semi-annual sampling event for 2010. The approved groundwater monitoring network consists of the background wells (MW-11 and MW-11d), 16 down-gradient compliance wells (MW-12, -12d, -13, -14, -15, -15d, -16, -17, -17d, -18, -19, -20, -21, -25, -25d, and –26) and 3 surface water sampling locations (SW-4, -5, and –6). Sampling results plus the statistical analysis for all wells and surface water sampling locations are discussed below.

Field Activities

Groundwater and surface water samples from the North Wake Lined Landfill were collected on May 6-7, 2010 by use of 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. The potentiometric contours and sampling locations are presented on **Figure 1**. The groundwater elevations and potentiometric contours were used to estimate the groundwater velocity 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 ensure 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, and oxidation-reduction potential. The field parameters at the time of sampling and groundwater elevations are presented in **Table 1**.

Sampling Results
ENCO Laboratories, Inc. in Cary, North Carolina analyzed groundwater and surface water samples for the North Carolina Appendix I Volatile Organic Compounds (VOC's) and metals.

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 Lined 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 indicates the analytes detected above the MDL at each sampling location. No "J" flag detections are provided. Underlined analytes exceeded the North Carolina 2L Standard (2L), Groundwater Protection Standard, or the North Carolina Surface Water Standards for Class C Waters (2B). A complete summary of all detected and estimated concentrations for the May 2010 and previous sampling events is presented on **Table 3**. Copies of the laboratory reports are provided in **Appendix A**.

MW-11 (Background)
Metals: Zinc
Volatile Organic Compounds: None Detected

MW-11D (Background, Deep)
Metals: Zinc
Volatile Organic Compounds: None Detected

MW-12
Metals: Barium, Copper, <u>Vanadium</u>, Zinc
Volatile Organic Compounds: None Detected

MW-12D
Metals: None Detected
Volatile Organic Compounds: None Detected

MW-13
Metals: <u>Barium</u>, Cadmium, <u>Chromium</u>, <u>Cobalt</u>, Copper, <u>Lead</u>, <u>Nickel</u>, <u>Vanadium</u>, <u>Zinc</u>
Volatile Organic Compounds: None Detected

MW-14
Metals: None Detected
Volatile Organic Compounds: None Detected

MW-15
Metals: Barium, Copper, Zinc
Volatile Organic Compounds: None Detected

MW-15D
Metals: None Detected
Volatile Organic Compounds: None Detected

MW-16
Metals: Barium, Zinc
Volatile Organic Compounds: None Detected

MW-17
Metals: Chromium, Zinc
Volatile Organic Compounds: None Detected

MW-17D
Metals: Zinc
Volatile Organic Compounds: None Detected

MW-18
Metals: Barium, Chromium, Cobalt, Copper, Vanadium, Zinc
Volatile Organic Compounds: None Detected

MW-19
Metals: Zinc
Volatile Organic Compounds: None Detected

MW-20
Metals: Barium, Chromium, Cobalt, Copper, Lead, Vanadium, Zinc
Volatile Organic Compounds: None Detected

MW-21
Metals: Barium, Copper, Zinc
Volatile Organic Compounds: None Detected

MW-25

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

MW-25D

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

MW-26

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

SW-4

Metals:	None Detected
Volatile Organic Compounds:	None Detected

SW-5

Metals:	Zinc
Volatile Organic Compounds:	None Detected

SW-6

Metals:	None Detected
Volatile Organic Compounds:	None Detected

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

Antimony:	MW-17d
Thallium:	MW-13
Vanadium:	MW-11D, MW-14, MW-15, MW-15D, MW-16, MW-17, MW-17D, MW-19, MW-21, MW-25, MW-26

The equipment blank had "J" flag detections of acetone, toluene, and xylene. No analytes were detected in the trip blank. A blind duplicate sample identified as Dup was collected from MW-17D.

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 well using either an ANOVA comparison or the Test of Proportions. The ANOVA comparison is used for all VOC detections. The ANOVA comparison is 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 are below detection limits, the MDL was substituted. The Test of Proportions is used only for metal's comparisons where greater than 50% of the data was non-detect.

For the May 2010 sampling event, chromium was determined to be statistically significant in monitoring wells MW-13, MW-17, MW-18, and MW-25D. Cobalt was statistically significant in monitoring wells MW-18 and MW-26. These detections are likely naturally occurring as chromium and cobalt are periodically detected in the background wells. **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. Wake County will continue with the semi-annual monitoring program.

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
Bob Brossoie, CDM

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

	Field Measurements						Groundwater Elevations		
Monitoring Well and Surface Water I.D.	pH (-)	Conductivity (μS)	Temperature (deg. C)	Turbidity [1] (NTU)	DO (mg/L)	ORP (-)	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-11	5.85	81	16.4	89	5.46	154.2	343.63	42.76	300.87
MW-11 D	6.05	94	16.7	7	4.92	134.6	343.27	42.98	300.29
MW-12	6.13	179	15.4	140	2.86	163.2	262.10	16.54	245.56
MW-12D	6.04	166	16.8	1	3.14	156.9	261.28	17.60	243.68
MW-13	6.29	129	18.3	849	5.30	117.9	270.32	26.56	243.76
MW-14	5.97	140	17.0	24	4.47	164.7	270.56	41.43	229.13
MW-15	6.45	274	15.0	57	2.40	-51.2	239.31	17.91	221.40
MW-15D	6.54	162	16.5	16	3.92	15.7	239.32	18.24	221.08
MW-16	6.60	545	17.0	35	2.73	66.2	266.43	32.67	233.76
MW-17	6.09	118	16.7	127	7.41	147.1	274.29	31.10	243.19
MW-17D	6.26	152	16.7	33	4.09	133.7	273.94	31.68	242.26
MW-18	6.66	107	15.4	324	7.35	125.6	283.01	19.31	263.70
MW-19	6.07	135	17.2	41	4.64	144.5	283.61	37.78	245.83
MW-20	6.32	216	18.4	612	3.48	139.9	290.77	30.00	260.77
MW-21	6.08	116	17.7	84	3.23	161.3	308.67	31.60	277.07
MW-25	6.44	156	13.4	82	1.69	67.6	293.73	9.60	284.13
MW-25d	6.16	105	15.4	264	5.84	133.2	294.34	9.52	284.82
MW-26	6.41	172	13.4	94	2.62	-7.2	275.22	9.54	265.68
SW-4	7.13	141	21.3	22	8.46	100.7			
SW-5	6.84	181	19.2	24	7.80	122.0			
SW-6	6.69	121	20.6	29	6.28	125.0			

NOTES:
[1] - Values recorded were measured at the time samples were collected
AMSL - Above Mean Sea Level
TOC - Top of Casing
SW - Surface Water

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

Monitoring Well Designation	*Hydraulic Conductivity - ft/day (cm/s)*	*Gradient*	*Effective Porosity*	*Average Linear Velocity (ft/day)*
MW-11	5.66 (2.00E-03)	0.0249	0.13	1.08E+00
MW-11D	0.509 (1.80E-04)	0.0246	0.05	2.51E-01
MW-12	0.486 (1.71E-04)	0.0279	0.13	1.04E-01
MW-12D	5.24 (1.85E-03)	0.0286	0.05	3.00E+00
MW-13	1.02 (3.60E-04)	0.0263	0.13	2.06E-01
MW-14	2.05 (7.23E-04)	0.0301	0.13	4.74E-01
MW-15	2.54 (8.96E-04)	0.0279	0.25	2.83E-01
MW-15D	1.33 (4.69E-04)	0.0278	0.05	7.39E-01
MW-16	0.00967 (3.41E-06)	0.0251	0.05	4.86E-03
MW-17	1.18 (4.16E-04)	0.0256	0.18	1.68E-01
MW-17D	0.367 (1.29E-04)	0.0258	0.05	1.89E-01
MW-18	6.86 (2.42E-03)	0.0208	0.13	1.10E+00
MW-19	1.40 (4.92E-04)	0.0299	0.08	5.24E-01
MW-20	0.58 (2.06E-04)	0.0248	0.13	1.10E-01
MW-21	1.34 (4.73E-04)	0.0206	0.13	2.12E-01
MW-25	1.40 (4.96E-04)	0.0177	0.15	1.65E-01
MW-25D	0.02 (8.04E-06)	0.0164	0.15	2.18E-03
MW-26	0.72 (2.54E-04)	0.0219	0.13	1.21E-01

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-11	31-Oct-95		0.011	0.842	**0.008**		0.024	**0.071**	0.331	**0.026**	0.087				**0.117**	0.314
MW-11	19-Dec-95															
MW-11	26-Feb-96						0.011	0.022								0.106
MW-11	29-Apr-96															0.106
MW-11	27-Nov-96			0.035												
MW-11	22-Apr-97															0.13
MW-11	31-Oct-97															0.066
MW-11	11-May-98															
MW-11	8-Dec-98					**0.0021**										
MW-11	14-Apr-99															
MW-11	30-Nov-99															
MW-11	5-Apr-00					0.0012										
MW-11	18-Dec-00															
MW-11	18-Apr-01															
MW-11	27-Nov-01			0.311					0.0165							0.0297
MW-11	5-Apr-02															
MW-11	5-Nov-02															
MW-11	15-Apr-03															
MW-11	29-Oct-03															
MW-11	21-Apr-04															
MW-11	18-Nov-04															
MW-11	21-Apr-05															
MW-11	11-Nov-05															0.083
MW-11	13-Apr-06															
MW-11	8-Nov-06															0.082
MW-11	20-Apr-07															0.021
MW-11	7-Nov-07			0.332	0.0021					0.012					**0.058**	0.113
MW-11	15-May-08			0.0778J			0.0054J		0.0105	0.00392J			0.00448J	**0.00563**	0.00290J	0.0161
MW-11	10-Nov-08			0.0531J	0.00303	0.00035JB	0.00273JB		0.00594JB	0.00978JB			0.00402JB		0.00114J	0.00818J
MW-11	11-Mar-09			0.0991JB	**0.00629**	0.00024J	0.00439JB	0.00651JB	0.0136B	0.00584JB			0.00634JB		**0.0203JB**	0.0207
MW-11	3-Dec-09			0.412	0.00236	0.00022J	**0.0149**	0.0254	0.102B	**0.0192**	0.0145J	0.0107			**0.099B**	0.12B
MW-11	12-May-10			0.0621J			0.00145J		0.00192J						0.00267J	0.0126

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-11D	31-Oct-95					**0.002**										
MW-11D	19-Dec-95															
MW-11D	26-Feb-96					0.001										
MW-11D	29-Apr-96															
MW-11D (dup)	29-Apr-96															
MW-11 D	27-Nov-96			0.026												
MW-11D	22-Apr-97															0.054
MW-11D	31-Oct-97															0.026
MW-11D	11-May-98												0.012			0.069
MW-11D	8-Dec-98					**0.0019**										
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															
MW-11D	5-Nov-02															
MW-11D	15-Apr-03															
MW-11D	29-Oct-03															
MW-11D	21-Apr-04															
MW-11D	18-Nov-04															
MW-11D	21-Apr-05															
MW-11D	11-Nov-05															
MW-11D	13-Apr-06															
MW-11D	8-Nov-06															
MW-11D	20-Apr-07															
MW-11D	7-Nov-07															0.016
MW-11D	15-May-08			0.0597J	0.00307		0.00641J		0.00821J	0.00459J			0.00398J	**0.00691**	0.000970J	0.00982J
MW-11D	10-Nov-08			0.0376J		0.00036JB	0.00194JB		0.0058JB	0.0085JB			0.00437JB		**0.00409J**	0.00414J
MW-11D	16-Mar-09		0.00411J	0.0877JB	**0.00611B**	0.00041J	0.00714JB		0.0153B	0.00694JB			0.00122JB		**0.0201JB**	0.0219
MW-11D	4-Dec-09			0.0614JB			0.00541JB		0.0082JB				0.00316JB		**0.00728JB**	0.00885JB
MW-11D	13-May-10	0.00101J		0.0478J			0.00510J		0.0031J						**0.00550J**	0.0123

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-12	31-Oct-95															
MW-12	19-Dec-95															
MW-12 (dup)	19-Dec-95															
MW-12	26-Feb-96															
MW-12	29-Apr-96															
MW-12	27-Nov-96			0.2				0.005	0.01	0.006					**0.014**	0.028
MW-12	24-Apr-97						0.012									0.11
MW-12	3-Nov-97			0.55	0.0029	0.0013	0.021	0.023		**0.018**					**0.12**	0.31
MW-12	23-Nov-98															
MW-12	14-Apr-99															
MW-12	1-Dec-99															
MW-12	5-Apr-00															
MW-12	18-Dec-00															
MW-12	17-Apr-01															
MW-12	28-Nov-01															
MW-12	3-Apr-02															
MW-12	5-Nov-02					0.0013										
MW-12	15-Apr-03															
MW-12	30-Oct-03															
MW-12	7-Apr-04															
MW-12	18-Nov-04						0.019	0.018							**0.065**	0.05
MW-12	21-Apr-05															
MW-12	11-Nov-05															
MW-12	13-Apr-06															
MW-12	8-Nov-06															
MW-12	20-Apr-07			0.26	0.001				0.037						**0.05**	0.061
MW-12	7-Nov-07			0.266	0.0014				0.031						**0.038**	0.068
MW-12	14-May-08			0.287		0.00068J	0.0181	0.00992J	0.0656	**0.0206**		0.0101			**0.0578**	0.0592
MW-12	5-Nov-08			0.0567J	0.00244	0.00017J	0.00353J		0.00684J				0.0015JB		**0.00585J**	0.0105
MW-12	18-Mar-09			0.0563J		0.00014J	0.00265J		0.0151B				0.00149JB		**0.0201JB**	0.00909J
MW-12	20-Oct-09			0.0573JB		0.00034J	0.0051JB		0.0141B		0.00379J				**0.0101J**	0.00912JB
MW-12	7-May-10			0.19		0.000549J	0.00835J	0.00831J	0.0392	0.00493J	0.00272J	0.000929J		0.000176J	**0.0396**	0.0505

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-12D	31-Oct-95															
MW-12D	19-Dec-95															
MW-12D	26-Feb-96															
MW-12D	29-Apr-96															
MW-12 D	27-Nov-96			0.013												
MW-12D	24-Apr-97															
MW-12D	3-Nov-97															
MW-12D	23-Nov-98															
MW-12D	14-Apr-99															
MW-12D	1-Dec-99															
MW-12D	5-Apr-00															
MW-12D	18-Dec-00															
MW-12D (dup)	18-Dec-00					0.0011										
MW-12D	17-Apr-01															
MW-12D	28-Nov-01															
MW-12D	3-Apr-02															
MW-12D	5-Nov-02															
MW-12D	15-Apr-03															
MW-12D	30-Oct-03															
MW-12D	7-Apr-04															
MW-12D	18-Nov-04															
MW-12D	21-Apr-05															
MW-12D	11-Nov-05															
MW-12D	13-Apr-06															
MW-12D	8-Nov-06															
MW-12D	20-Apr-07															
MW-12D	7-Nov-07															
MW-12D	14-May-08			0.0228J			0.00345J		0.0131	0.00947J						
MW-12D	5-Nov-08			0.0164J	**0.00474**	0.00014J			0.0102	0.00409J			0.00124JB			
MW-12D	18-Mar-09			0.00731J		0.00027J		0.0132B					0.00134JB	**0.00773**	**0.0101JB**	
MW-12D	20-Oct-09			0.0256JB		0.00022J	0.00416JB		0.021B						**0.00527J**	0.00272JB
MW-12D	6-May-10			0.0197J					0.00862J						0.00258J	

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-13	31-Oct-95				0.002		0.022				0.063				**0.044**	0.069
MW-13	19-Dec-95															
MW-13	26-Feb-96															
MW-13	29-Apr-96															
MW-13	27-Nov-96			0.018												
MW-13	24-Apr-97															
MW-13	7-May-98						0.021									
MW-13	23-Nov-98					**0.0068**	**0.059**	0.019							**0.081**	0.12
MW-13	14-Apr-99															
MW-13	1-Dec-99															
MW-13	6-Apr-00															
MW-13	18-Dec-00					0.0011	0.0102									
MW-13	17-Apr-01															
MW-13	28-Nov-01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-13	3-Apr-02															
MW-13	6-Nov-02															
MW-13	15-Apr-03															
MW-13 (dup)	15-Apr-03															
MW-13	30-Oct-03															
MW-13	8-Apr-04						0.0222									
MW-13 (dup)	8-Apr-04															
MW-13	18-Nov-04						**0.086**	0.033							**0.099**	0.1
MW-13	21-Apr-05															
MW-13	11-Nov-05			0.578			0.0158				**0.109**				**0.217**	0.272
MW-13	13-Apr-06						0.012									
MW-13	8-Nov-06						0.017									
MW-13	20-Apr-07															0.012
MW-13	7-Nov-07			0.157			0.024								**0.03**	0.062
MW-13	13-May-08			0.0446J			0.00748J		0.00466J	0.00881J					**0.00589J**	0.00845J
MW-13	4-Nov-08			0.0686J			0.0144		0.00169J	0.0041J			0.0014JB		**0.0165J**	0.0199
MW-13	18-Mar-09			0.0566J			0.0111		0.00486JB				0.00156JB	**0.0061**	**0.0231JB**	0.0131
MW-13	21-Oct-09			0.0791JB			**0.0178B**	0.0041J	0.00915JB		0.00728J				**0.0269**	0.0228B
MW-13	7-May-10		0.0041J	**0.838**		0.00126	**0.21**	**0.0814**	0.0164	**0.0227**	**0.107**			**0.000707J**	**0.274**	**0.339**

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-14	31-Oct-95										0.052					
MW-14	19-Dec-95															
MW-14	26-Feb-96									**0.021**						
MW-14	29-Apr-96						0.013	0.012								
MW-14	27-Nov-96			0.011												
MW-14	24-Apr-97															0.098
MW-14	1-Nov-97															0.098
MW-14	7-May-98						0.034				0.088					0.064
MW-14	23-Nov-98															
MW-14 (dup)	23-Nov-98															
MW-14	14-Apr-99															
MW-14	1-Dec-99					0.001										
MW-14	6-Apr-00															
MW-14 (dup)	6-Apr-00															
MW-14	18-Dec-00															
MW-14	17-Apr-01															
MW-14	28-Nov-01															
MW-14	3-Apr-02															
MW-14	5-Nov-02															
MW-14	15-Apr-03					0.0017										
MW-14	29-Oct-03															
MW-14	8-Apr-04															
MW-14	18-Nov-04															
MW-14	21-Apr-05															
MW-14	11-Nov-05															
MW-14	13-Apr-06															
MW-14	8-Nov-06															
MW-14	20-Apr-07															
MW-14	7-Nov-07								0.013							0.025
MW-14	13-May-08			0.0338J			0.00554J		0.00642J	0.00787J						
MW-14	4-Nov-08			0.0258J		0.00037J	0.00328J		0.00333J	0.00375J			0.00116JB		0.00083J	0.00508J
MW-14	18-Mar-09			0.0257J			0.00265J		0.00825JB				0.0013JB		**0.0124JB**	
MW-14	21-Oct-09		0.00532J	0.0325JB			0.00623JB		0.00961JB						**0.00875J**	0.00574JB
MW-14	7-May-10			0.0248J			0.0021J								**0.00486J**	0.00484J

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-15	31-Oct-95						0.012				0.064					
MW-15	19-Dec-95															
MW-15	26-Feb-96						0.036	0.012							**0.143**	
MW-15	29-Apr-96				**0.005**		**0.196**	0.052	0.503	**0.034**	0.094				**0.410**	0.240
MW-15	27-Nov-96			0.15			0.003	0.007	0.017						**0.051**	0.046
MW-15 (dup)	27-Nov-96			0.2			0.004	0.007	0.021						**0.072**	0.046
MW-15	24-Apr-97															0.078
MW-15 (dup)	24-Apr-97															
MW-15	31-Oct-97															0.078
MW-15	7-May-98													**0.012**		
MW-15	23-Nov-98					**0.0025**	0.01								**0.040**	0.12
MW-15	14-Apr-99					0.0011										0.0159
MW-15	1-Dec-99															
MW-15	6-Apr-00					0.0015										
MW-15	18-Dec-00					0.0014		0.0102							**0.0941**	0.475
MW-15	17-Apr-01															
MW-15 (dup)	17-Apr-01															
MW-15	28-Nov-01					0.0011									**0.0669**	0.165
MW-15	3-Apr-02															
MW-15	6-Nov-02															
MW-15	15-Apr-03					**0.0019**	0.0195	0.0169							**0.0617**	
MW-15	29-Oct-03															
MW-15	8-Apr-04															
MW-15	18-Nov-04						**0.06**	0.025			0.052				**0.142**	0.09
MW-15	21-Apr-05															
MW-15	11-Nov-05															
MW-15	13-Apr-06															
MW-15	8-Nov-06						0.011									0.061
MW-15	20-Apr-07															
MW-15	7-Nov-07								0.015						**0.027**	0.077
MW-15	13-May-08			0.0896J			0.0121	0.00526J	0.0197	0.00515J		0.0139			**0.0191J**	0.0134
MW-15	3-Nov-08			0.0665J		0.0003J	0.00449J		0.00662J		0.0096J		0.00201JB		**0.00504J**	0.00882J
MW-15	18-Mar-09			0.0774J		0.00018J	0.00692J	0.00347J	0.0162B				0.00193JB	**0.0064**	**0.0277B**	0.00954J
MW-15	21-Oct-09			0.0513J			0.00308J		0.00669JB		0.00806J	0.00286J			**0.0213JB**	0.00773JB
MW-15	7-May-10			0.141			0.00787J	0.00791J	0.0138	0.00302J	0.00315J				**0.0239J**	0.0228

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-15D	31-Oct-95															
MW-15D	19-Dec-95															
MW-15D	26-Feb-96															
MW-15D	29-Apr-96															
MW-15D	27-Nov-96			0.05			0.003								**0.005**	
MW-15D	24-Apr-97															0.05
MW-15D	31-Oct-97									0.013						0.05
MW-15D	7-May-98						0.013							**0.011**		
MW-15D	23-Nov-98															
MW-15D	14-Apr-99															
MW-15D	1-Dec-99															
MW-15D	6-Apr-00															
MW-15D	18-Dec-00															
MW-15D	17-Apr-01															
MW-15D	28-Nov-01															
MW-15D	3-Apr-02															
MW-15D	6-Nov-02															
MW-15D	15-Apr-03															
MW-15D	29-Oct-03															
MW-15D	8-Apr-04															
MW-15D	18-Nov-04															
MW-15D	21-Apr-05															
MW-15D	11-Nov-05															
MW-15D	13-Apr-06															
MW-15D	8-Nov-06															
MW-15D	20-Apr-07															
MW-15D	7-Nov-07															
MW-15D	13-May-08			0.0601J			0.00506J		0.00522J	0.00788J						0.00536J
MW-15D	5-Nov-08			0.0636J			0.00282J			0.00394J			0.00111JB			
MW-15D (dup)	5-Nov-08			0.0636J			0.00377J						0.00088JB			0.00708J
MW-15D	17-Mar-09			0.0412J		0.00031J	0.00452J		0.00234J	0.00560J			0.00187JB		**0.0108JB**	0.00755J
MW-15D	20-Oct-09	0.00137J	0.00534J	0.0685JB		0.00142	0.0097JB		0.014B	0.00947J					**0.00596J**	0.0157B
MW-15D (dup)	20-Oct-09	0.00158J		0.0698JB		0.00153	0.00895JB		0.0138B						**0.0108J**	0.0144B
MW-15D	6-May-10	0.000526J		0.0613J		0.000364J	0.00403J								**0.00430J**	0.00436J

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-16	31-Oct-95						**0.590**				0.073					
MW-16	19-Dec-95						**0.204**									
MW-16	26-Feb-96						**0.086**									
MW-16 (dup)	26-Feb-96						0.020									
MW-16	29-Apr-96				0.003		0.040	0.017		**0.037**					**0.065**	0.051
MW-16	27-Nov-96			0.15				0.002								
MW-16	24-Apr-97						0.012			0.011						0.14
MW-16	31-Oct-97							0.01								0.045
MW-16 (dup)	31-Oct-97						0.012	0.013		0.012						0.031
MW-16	7-May-98						0.012							**0.015**		
MW-16	23-Nov-98					0.0015										
MW-16	14-Apr-99					0.0013										
MW-16	1-Dec-99					0.0013										
MW-16	6-Apr-00							0.0133								
MW-16	18-Dec-00															
MW-16	17-Apr-01															
MW-16	28-Nov-01		0.0133													
MW-16	3-Apr-02															
MW-16	6-Nov-02															
MW-16	15-Apr-03															
MW-16	29-Oct-03															
MW-16 (dup)	29-Oct-03															
MW-16	8-Apr-04		0.0151					0.0124								
MW-16	18-Nov-04	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
MW-16	21-Apr-05															
MW-16	11-Nov-05															
MW-16	13-Apr-06															
MW-16	8-Nov-06		0.012				0.012	0.012								
MW-16	20-Apr-07			0.112					0.011							0.029
MW-16	7-Nov-07			0.167					0.012							0.023
MW-16	13-May-08			0.144		0.00027J	0.0152	0.00752J	0.0295	0.012		0.012	0.00094J		**0.0307J**	0.129
MW-16	5-Nov-08		0.00216J	0.202		0.00045J	0.0105	0.0133	0.0179	0.0106	0.00586J		0.00159JB		**0.0294**	0.136
MW-16	17-Mar-09			0.080J		0.00057J	0.00223J		0.0103	0.00418J			0.00172JB		**0.0203JB**	0.0226
MW-16	20-Oct-09	**0.00141J**	0.0051J	0.169B			0.00425JB	0.00283J	0.0129B		0.00271J				**0.0113J**	0.0261B
MW-16	7-May-10	0.000329J		0.124			0.00177J	0.0031J	0.00841J		0.00268J				**0.0049J**	0.0304

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-17	31-Oct-95															
MW-17	19-Dec-95						0.012									
MW-17	26-Feb-96				0.003		0.036	0.011		**0.016**					**0.104**	0.052
MW-17	29-Apr-96						0.014									
MW-17	27-Nov-96			0.023			0.003									
MW-17	24-Apr-97						0.02									0.056
MW-17	31-Oct-97						0.013			0.01						0.035
MW-17	11-May-98						0.011									0.13
MW-17	23-Nov-98															
MW-17	14-Apr-99															
MW-17	1-Dec-99															
MW-17	6-Apr-00															
MW-17	18-Dec-00															
MW-17	17-Apr-01															
MW-17	29-Nov-01															
MW-17	3-Apr-02															
MW-17 (dup)	3-Apr-02															
MW-17	6-Nov-02															
MW-17	15-Apr-03															
MW-17	29-Oct-03															
MW-17	8-Apr-04															
MW-17	18-Nov-04															
MW-17	21-Apr-05															
MW-17	11-Nov-05						0.014									
MW-17	13-Apr-06															
MW-17	8-Nov-06				0.003		0.02			**0.017**					**0.042**	
MW-17	20-Apr-07															
MW-17	7-Nov-07			0.107	0.003		0.019		0.011	**0.015**					**0.041**	0.029
MW-17	13-May-08			0.0417J			0.0112		0.00808J	0.00844J			0.0015J		**0.0113J**	0.00722J
MW-17	3-Nov-08			0.0215J	**0.00613**	0.00016J	0.00557J		0.0025J				0.00144J			
MW-17	18-Mar-09			0.00843J					0.00356JB				0.00115JB		**0.00763JB**	
MW-17	21-Oct-09		0.00577J	0.0245JB			0.00453JB		0.00775JB						0.00344	0.00259JB
MW-17	7-May-10			0.0381J	0.00022J		0.0106	0.00243J	0.00493J	0.00453J					**0.0202J**	0.028

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-17D	31-Oct-95															
MW-17D	19-Dec-95															
MW-17D	26-Feb-96															
MW-17D	29-Apr-96															
MW-17D	27-Nov-96			0.026			0.005									
MW-17D	24-Apr-97															
MW-17D	31-Oct-97															
MW-17D	11-May-98															0.058
MW-17D	23-Nov-98															
MW-17D	14-Apr-99															
MW-17D	1-Dec-99															
MW-17D	6-Apr-00															
MW-17D	18-Dec-00															
MW-17D	17-Apr-01															
MW-17D	29-Nov-01															
MW-17D	3-Apr-02															
MW-17D	6-Nov-02															0.539
MW-17D	15-Apr-03															
MW-17D	29-Oct-03															
MW-17D	8-Apr-04															
MW-17D	18-Nov-04															
MW-17D	21-Apr-05					**0.002**										
MW-17D	11-Nov-05															
MW-17D	13-Apr-06															
MW-17D	8-Nov-06															
MW-17D	20-Apr-07						0.021									
MW-17D	7-Nov-07															
MW-17D	13-May-08			0.0382J			0.00345J		0.00446J	0.00853J			0.0013J			0.0063J
MW-17D	5-Nov-08			0.0438J	0.00161		0.00557J		0.00216J				0.00132JB			
MW-17D	17-Mar-09			0.0130J		0.000530J				0.00640J			0.00168JB		**0.0115JB**	0.0177
MW-17D (dup)	17-Mar-09			0.0115J		0.00040J							0.00178JB		**0.00884JB**	0.00717J
MW-17D	20-Oct-09	0.00056J		0.0383JB		0.00029J	0.0051JB		0.0125B						**0.00662J**	0.0121B
MW-17D	6-May-10	**0.00217J**		0.0313J		0.000946J	0.00225J		0.00369J						**0.00495J**	0.0175
MW-17D (dup)	6-May-10	**0.00188J**		0.032J		0.000825J	0.00251J		0.00357J						**0.00452J**	0.0118

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-18	31-Oct-95			0.857	**0.004**		**0.271**	**0.092**		**0.018**	**0.264**				**0.207**	0.428
MW-18 (dup)	31-Oct-95			1.347	**0.009**		**0.505**	**0.145**		**0.027**	**0.458**				**0.307**	0.875
MW-18	19-Dec-95															
MW-18	26-Feb-96						**0.067**	0.038		0.012					**0.107**	0.150
MW-18	29-Apr-96				**0.005**		**0.299**	**0.127**	0.620	**0.023**	**0.218**				**0.165**	0.606
MW-18	27-Nov-96			0.018												
MW-18	24-Apr-97					0.001		0.045			0.066				**0.11**	0.26
MW-18	31-Oct-97						**0.064**	0.026							**0.062**	0.11
MW-18	7-May-98						0.014									
MW-18	23-Nov-98					0.0012	0.013									
MW-18	14-Apr-99					**0.0018**										
MW-18	1-Dec-99						0.0123									
MW-18	6-Apr-00															
MW-18	18-Dec-00															
MW-18	17-Apr-01															
MW-18	29-Nov-01						0.0231	0.0165								0.0676
MW-18	5-Apr-02															
MW-18	6-Nov-02						0.0146	0.0106								
MW-18	15-Apr-03					0.0010	0.0235	0.0133								
MW-18	29-Oct-03						0.0275	0.0134								
MW-18	8-Apr-04						0.0251	0.0119								
MW-18	18-Nov-04															
MW-18	21-Apr-05															
MW-18	11-Nov-05															
MW-18	13-Apr-06						0.023									0.051
MW-18	8-Nov-06			0.598	0.003		0.047	0.019		**0.017**					**0.056**	0.244
MW-18	20-Apr-07			0.106					0.026						**0.025**	0.043
MW-18	7-Nov-07			0.281	0.001		0.035	0.013	0.043						**0.044**	0.107
MW-18	13-May-08			0.0726J			0.022	0.00544J	0.0286	0.0128	0.00608J	0.0091J			**0.0178J**	0.0223
MW-18	3-Nov-08			0.0207J	0.00376	0.00016J	0.00498J		0.00565J				0.00115J		0.0014J	0.00495J
MW-18	18-Mar-09			0.0343J	0.00045J		0.0117		0.0216B				0.00143JB		**0.0218JB**	0.00942J
MW-18	21-Oct-09			0.0496JB			**0.0164B**	0.00321J	0.0226B		0.00509J				**0.0138J**	0.0132B
MW-18	7-May-10			0.253		0.000624J	**0.0901**	0.0369	0.117	0.00627J	0.0388J			0.000128J	**0.0814**	0.103

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-19	8-Mar-99					**0.003**	**0.124**	0.0285		0.0124	0.056				**0.0826**	0.0573
MW-19	15-Apr-99															
MW-19	27-May-99															
MW-19	20-Jul-99															
MW-19	4-Aug-99															
MW-19 (dup)	4-Aug-99															
MW-19	1-Dec-99															
MW-19	5-Apr-00															
MW-19	18-Dec-00															
MW-19	18-Apr-01															
MW-19	28-Nov-01															
MW-19	4-Apr-02															
MW-19	5-Nov-02						0.0178									
MW-19	16-Apr-03						0.0294									
MW-19	30-Oct-03															
MW-19	7-Apr-04															
MW-19	18-Nov-04						0.018									
MW-19	21-Apr-05															
MW-19	11-Nov-05															
MW-19	13-Apr-06															
MW-19	8-Nov-06															
MW-19	20-Apr-07															
MW-19	7-Nov-07						0.017		0.029							0.012
MW-19	14-May-08			0.033J			0.0106		0.012							0.00437J
MW-19	5-Nov-08			0.0124J	0.00154B	0.00014J	0.00389J		0.00294J				0.00155JB			
MW-19	18-Mar-09					0.00023J	0.00285J		0.00551JB				0.00146JB		**0.00773JB**	
MW-19	21-Oct-09			0.02JB			0.00557JB		0.00867JB						**0.00462J**	0.00349JB
MW-19	7-May-10			0.0222J		0.000446J	0.00781J	0.00130J	0.00785J		0.00247J				**0.00474J**	0.022

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-20	15-Apr-99					0.00012	0.0118	0.036								0.098
MW-20	27-May-99															
MW-20 (dup)	27-May-99															
MW-20	20-Jul-99															
MW-20	4-Aug-99															
MW-20	1-Dec-99															
MW-20	5-Apr-00															
MW-20	18-Dec-00															
MW-20	18-Apr-01															
MW-20	27-Nov-01			0.179				0.0279	0.122							0.0827
MW-20	4-Apr-02							0.011								
MW-20	6-Nov-02															
MW-20	16-Apr-03					0.0013	0.0101	0.0191								0.0601
MW-20	30-Oct-03															
MW-20	7-Apr-04															
MW-20	18-Nov-04							0.01								
MW-20	21-Apr-05															
MW-20	11-Nov-05															
MW-20	13-Apr-06															
MW-20	8-Nov-06															
MW-20	20-Apr-07								0.019							0.015
MW-20	7-Nov-07			0.147				0.012	0.075	**0.019**					**0.029**	0.079
MW-20	14-May-08		0.00231J	0.0364J			0.00474J		0.0272	0.0113					**0.0107J**	0.0126
MW-20	5-Nov-08			0.0258J	0.00063J	0.00014J	0.00317J		0.0176				0.00105J		**0.00654J**	0.00757J
MW-20	18-Mar-09			0.0274J			0.00284J		0.0373B		0.00491J		0.00126JB	**0.0115**	**0.0290B**	0.011
MW-20	21-Oct-09			0.0293JB			0.00509JB		0.0145B	0.00788J					**0.0122J**	0.00577JB
MW-20	7-May-10			0.165		0.000656J	**0.0172**	0.0278	0.19	0.0122	0.0259J			0.000129J	**0.0538**	0.0925

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-21	15-Apr-99					**0.004**		0.0632	0.362	0.0147	0.0527				**0.0565**	0.347
MW-21	27-May-99															
MW-21	20-Jul-99															
MW-21	4-Aug-99															
MW-21	30-Nov-99															
MW-21	5-Apr-00															
MW-21	18-Dec-00															
MW-21	18-Apr-01															
MW-21	27-Nov-01															
MW-21	4-Apr-02															
MW-21	5-Nov-02															
MW-21	16-Apr-03															
MW-21	30-Oct-03															
MW-21	7-Apr-04															
MW-21	18-Nov-04							0.016							**0.049**	
MW-21	21-Apr-05															
MW-21	11-Nov-05															
MW-21	13-Apr-06															
MW-21	8-Nov-06															
MW-21	20-Apr-07															
MW-21	7-Nov-07															0.011
MW-21	14-May-08			0.085J			0.00425J		0.0192	0.00645J					**0.00538J**	0.0109
MW-21 (dup)	14-May-08			0.0914J			0.00476J		0.0205	0.00542J			0.00446J	**0.00692**	**0.012J**	0.0168
MW-21	5-Nov-08		0.00185J	0.0581J	0.00112		0.00197J		0.00928J				0.00126JB			0.00504J
MW-21	18-Mar-09			0.0584J			0.00136J		0.0170B				0.00137JB	**0.00816**	**0.0195JB**	0.00654J
MW-21	21-Oct-09			0.0508J			0.00528JB		0.0123B						**0.00725J**	0.00438JB
MW-21	7-May-10			0.124			0.00323J	0.00461J	0.0249						**0.0192J**	0.0249

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-25	15-Apr-99															
MW-25	27-May-99															
MW-25	20-Jul-99															
MW-25 (dup)	20-Jul-99															
MW-25	4-Aug-99															
MW-25	1-Dec-99															
MW-25	5-Apr-00															
MW-25	18-Dec-00					0.0011										
MW-25	18-Apr-01															
MW-25	27-Nov-01															
MW-25	4-Apr-02															
MW-25	5-Nov-02															
MW-25	16-Apr-03															
MW-25	30-Oct-03															
MW-25	7-Apr-04															
MW-25	18-Nov-04															
MW-25	21-Apr-05															
MW-25	11-Nov-05															
MW-25	13-Apr-06															
MW-25	8-Nov-06															
MW-25	20-Apr-07															0.01
MW-25	7-Nov-07			0.126			0.015									0.028
MW-25	14-May-08			0.0528J			0.00441J		0.00472J	0.00397J						
MW-25	5-Nov-08			0.0704J			0.00702J		0.00403J				0.00148JB			0.00516J
MW-25	17-Mar-09			0.0421J	0.00115	0.00017J				0.00457J			0.00177JB		**0.00813JB**	
MW-25	21-Oct-09			0.0555JB			0.00351JB		0.00776JB						0.00151J	0.00288JB
MW-25	6-May-10			0.118			**0.0154**	0.00527J	0.00637J	0.00293J	0.00724J				**0.0150J**	0.0213

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		**0.0014***	**0.010**	**0.7**	**0.004***	**0.002**	**0.01**	**0.07***	**1**	**0.015**	**0.1**	**0.02**	**0.02**	**0.00028***	**0.0035***	**1**
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
MW-25D	15-Apr-99															
MW-25D	27-May-99															
MW-25D	20-Jul-99															
MW-25D	4-Aug-99															
MW-25D	1-Dec-99															
MW-25D	5-Apr-00															
MW-25D	18-Dec-00															
MW-25D	18-Apr-01					**0.0039**										
MW-25D	27-Nov-01								0.0109							
MW-25D	4-Apr-02															
MW-25D	5-Nov-02															
MW-25D	16-Apr-03					**0.0033**	0.0172	0.0212								
MW-25D	30-Oct-03															
MW-25D	7-Apr-04															
MW-25D	18-Nov-04															
MW-25D	21-Apr-05															
MW-25D	11-Nov-05															
MW-25D	13-Apr-06															
MW-25D	8-Nov-06						0.01									
MW-25D	20-Apr-07															
MW-25D	7-Nov-07						0.01		0.029							0.029
MW-25D	14-May-08			0.0766J			0.0121	0.00418J	0.0356		0.00844J				**0.013J**	0.0204
MW-25D	5-Nov-08			0.0699J		0.00063J	**0.054**	0.00315J	0.0191	0.00668J	0.0302J		0.00167JB		**0.00444J**	0.02
MW-25D	17-Mar-09			0.176		0.00156	0.0192	0.0117	0.0262	0.00399J	0.0423J		0.00284JB		**0.017JB**	0.0555
MW-25D	21-Oct-09		0.00491	0.0446JB			0.00716JB		0.0121B						**0.00621J**	0.00547JB
MW-25D	7-May-10			0.112		0.00043J	**0.0164**	0.0109	0.0613	0.00290J	0.0144J				**0.0327**	0.0443

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2L		0.0014*	0.010	0.7	0.004*	0.002	0.01	0.07*	1	0.015	0.1	0.02	0.02	0.00028*	0.0035*	1
SWSL		0.006	0.010	0.1	0.001	0.001	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.0055	0.025	0.01
MW-26	27-May-99					0.0014		0.0306								
MW-26	20-Jul-99							0.0102								
MW-26	4-Aug-99							0.01								
MW-26 (dup)	4-Aug-99							0.0102								
MW-26	30-Nov-99															
MW-26 (dup)	30-Nov-99															
MW-26	5-Apr-00					0.0017		0.0146								
MW-26	15-Dec-00					**0.0018**		0.02								
MW-26	18-Apr-01							0.0109								
MW-26	27-Nov-01							0.0126								
MW-26	4-Apr-02							0.0111								
MW-26	5-Nov-02					0.0016		0.0152								
MW-26 (dup)	5-Nov-02					**0.0018**		0.0154								
MW-26	16-Apr-03					0.0012		0.0165								
MW-26	30-Oct-03					0.0011		0.0278							**0.0405**	
MW-26	7-Apr-04							0.0117								
MW-26	18-Nov-04						0.011	0.023								
MW-26	21-Apr-05															
MW-26	11-Nov-05															
MW-26	13-Apr-06															
MW-26	8-Nov-06															
MW-26	20-Apr-07			0.387	0.001	**0.002**	0.016	0.026	0.356						**0.059**	0.165
MW-26	7-Nov-07								0.012							
MW-26	14-May-08			0.0633J			0.0102	0.0129	0.0573	0.0137	0.0118J	0.0203			**0.0155J**	0.0141
MW-26	5-Nov-08			0.0193J	**0.00432**		0.00136J	0.0046J	0.00679J				0.00121JB			
MW-26	18-Mar-08			0.00753J				0.00772J	0.00571JB				0.00175JB		**0.00581JB**	
MW-26	21-Oct-09			0.0253JB			0.00332JB	0.00721J	0.00976JB		0.0045J				0.00232J	0.00131JB
MW-26	7-May-10			0.0397J			0.00258J	0.0114	0.0247		0.00711J				**0.00992J**	0.0215

Notes:

All units are in milligrams per liter (parts per million)

- Concentration exceeds NC2L Groundwater Standard

- Indicates result below detection limit

* - Groundwater Protection Standard

NS - Not Sampled; dry - Well not sampled; 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

Table 3B
Detected Groundwater Constituents - VOCs
May 2010 Semi-Annual Sampling Event
North Wake Lined Landfill

Monitor Well	Sample Date	Acetone	Benzene	2-Butanone (MEK)	Carbon Disulfide	Chloroform	Chloromethane	cis-1,2-Dichloroethene	1, 1-Dichloroethane	Methylene Chloride	Tetrachloroethene	Toluene	Trichlorofluoromethane
NC2L		**6000**	**1**	**4000**	**700**	**70**	**3**	**70**	**6**	**5**	**0.7**	**600**	**2000**
SWSL		**100**	**1**	**100**	**100**	**5**	**1**	**5**	**5**	**1**	**1**	**1**	**1**
MW-11	7-Nov-07						0.4J						
MW-11	15-May-08												
MW-11	10-Nov-08					0.12J							
MW-11	11-Mar-09					0.14J						0.11J	
MW-11	3-Dec-09					0.14J							
MW-11	12-May-10												
MW-11D	7-Nov-07					0.3J	0.2J						
MW-11D	15-May-08					0.31J							
MW-11D	10-Nov-08					0.22J							
MW-11D	16-Mar-09					0.28J							
MW-11D	4-Dec-09					0.29J							
MW-11D	13-May-10												
MW-12	7-Nov-07	2.5J		2.9J			0.3J						
MW-12	14-May-08												
MW-12	4-Nov-08									0.31J			
MW-12	18-Mar-09												
MW-12	20-Oct-09												
MW-12	7-May-10												
MW-12D	7-Nov-07												
MW-12D	14-May-08					0.12J							
MW-12D	5-Nov-08									0.34J			
MW-12D	18-Mar-09												
MW-12D	20-Oct-09												
MW-12D	6-May-10												
MW-13	7-Nov-07			1.6J		0.2J							
MW-13	13-May-08					0.24J							
MW-13	4-Nov-08					0.15J				0.40J			
MW-13	18-Mar-09					0.11J							
MW-13	21-Oct-09					0.21J							
MW-13	7-May-10												
MW-14	7-Nov-07			1.4J		0.2J					0.2J		
MW-14	13-May-08					0.25J			0.09J		0.13J		
MW-14	4-Nov-08					0.18J					0.13J		
MW-14	18-Mar-09					0.14J							
MW-14	21-Oct-09					0.14J					0.14J		
MW-14	7-May-10												
MW-15	7-Nov-07			1.8J			0.3J						
MW-15	13-May-08												
MW-15	3-Nov-08									0.25J			
MW-15	18-Mar-09												
MW-15	21-Oct-09												
MW-15	7-May-10												
MW-15D	7-Nov-07			2.4J			0.3J						
MW-15D	13-May-08				0.11J								
MW-15D	5-Nov-08									0.42J			
MW-15D (dup)	5-Nov-08												
MW-15D	17-Mar-09												
MW-15D	20-Oct-09											0.14J	
MW-15D (dup)	20-Oct-09											0.15J	
MW-15D	6-May-10												

Table 3B
Detected Groundwater Constituents - VOCs
May 2010 Semi-Annual Sampling Event
North Wake Lined Landfill

Monitor Well	Sample Date	Acetone	Benzene	2-Butanone (MEK)	Carbon Disulfide	Chloroform	Chloromethane	cis-1,2-Dichloroethene	1, 1-Dichloroethane	Methylene Chloride	Tetrachloroethene	Toluene	Trichlorofluoromethane
NC2L		**6000**	**1**	**4000**	**700**	**70**	**3**	**70**	**6**	**5**	**0.7**	**600**	**2000**
SWSL		**100**	**1**	**100**	**100**	**5**	**1**	**5**	**5**	**1**	**1**	**1**	**1**
MW-16	7-Nov-07			1.3J									
MW-16	13-May-08	4.91J										0.22J	
MW-16	4-Nov-08	3.33J								0.31J			
MW-16	17-Mar-09												
MW-16	20-Oct-09												
MW-16	7-May-10												
MW-17	7-Nov-07			4.8J			0.4J						
MW-17	13-May-08												
MW-17	3-Nov-08												
MW-17	18-Mar-09												
MW-17	21-Oct-09												
MW-17	7-May-10												
MW-17D	7-Nov-07						1.5J						
MW-17D	13-May-08												
MW-17D	5-Nov-08									1.35			
MW-17D	17-Mar-09												
MW-17D (dup)	17-Mar-09												
MW-17D	20-Oct-09		0.15J									0.42J	
MW-17D	6-May-10												
MW-17D (dup)	6-May-10												
MW-18	7-Nov-07			1.8J		0.2J							
MW-18	13-May-08					0.21J							
MW-18	3-Nov-08					0.22J							
MW-18	18-Mar-09												
MW-18	21-Oct-09					0.13J							
MW-18	7-May-10												
MW-19	7-Nov-07			2.2J			0.3J						
MW-19	14-May-08					0.16J					0.12J		
MW-19	5-Nov-08					0.14J				0.33J			
MW-19	18-Mar-09					0.13J							
MW-19	21-Oct-09					0.14J							
MW-19	7-May-10												
MW-20	7-Nov-07	1.7J		1.7J					0.4J	0.2J	0.5J		0.2J
MW-20	14-May-08					0.17J		0.11J	0.45J		0.58J		
MW-20	5-Nov-08					0.14J			0.31J	0.29J	0.38J		
MW-20	18-Mar-09					0.13J			0.29J		0.46J		
MW-20	21-Oct-09					0.13J			0.29J	0.18J	0.45J		0.14J
MW-20	7-May-10										0.64J		
MW-21	7-Nov-07	1.5J		1.4J									
MW-21	14-May-08					0.14J							
MW-21 (dup)	14-May-08												
MW-21	5-Nov-08									0.25J			
MW-21	18-Mar-09												
MW-21	21-Oct-09					0.12J							
MW-21	7-May-10												
MW-25	7-Nov-07	1.6J		1.4J									
MW-25	14-May-08												
MW-25	5-Nov-08												
MW-25	17-Mar-09												
MW-25	21-Oct-09												
MW-25	6-May-10												

Table 3B
Detected Groundwater Constituents - VOCs
May 2010 Semi-Annual Sampling Event
North Wake Lined Landfill

Monitor Well	Sample Date	Acetone	Benzene	2-Butanone (MEK)	Carbon Disulfide	Chloroform	Chloromethane	cis-1,2-Dichloroethene	1, 1-Dichloroethane	Methylene Chloride	Tetrachloroethene	Toluene	Trichlorofluoromethane
NC2L		**6000**	**1**	**4000**	**700**	**70**	**3**	**70**	**6**	**5**	**0.7**	**600**	**2000**
SWSL		**100**	**1**	**100**	**100**	**5**	**1**	**5**	**5**	**1**	**1**	**1**	**1**
MW-25D	7-Nov-07	2.1J		2.2J			0.2J						
MW-25D	14-May-08					0.16J							
MW-25D	5-Nov-08									0.23J			
MW-25D	17-Mar-09					0.14J							
MW-25D	21-Oct-09					0.18J							
MW-25D	7-May-10												
MW-26	7-Nov-07	4.9J		3.6J			0.3J						
MW-26	14-May-08												
MW-26	5-Nov-08									1.06			
MW-26	18-Mar-09												
MW-26	21-Oct-09												
MW-26	7-May-10												

Notes:

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

- Concentration exceeds NC2L Groundwater Standard

- Indicates result below detection limit

* - Groundwater Protection Standard

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

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2B		**NS**	**0.05**	**NS**	**0.0065**	**0.002**	**0.05**	**NS**	**0.007***	**0.025**	**0.088**	**0.005**	**0.00006**	**NS**	**NS**	**0.05***
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
SW-4	31-Oct-95						0.013	0.012		0.018						
SW-4	28-Dec-96			0.013				0.002								
SW-4	21-Apr-97															
SW-4	3-Nov-97															
SW-4	11-May-98															
SW-4	23-Nov-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SW-4	14-Apr-99															
SW-4	30-Nov-99															
SW-4	5-Apr-00															
SW-4	15-Dec-00															
SW-4	17-Apr-01															
SW-4	29-Nov-01															
SW-4	3-Apr-02															
SW-4	6-Nov-02															
SW-4	15-Apr-03															
SW-4	30-Oct-03															
SW-4	7-Apr-04															
SW-4	18-Nov-04					0.001	0.011	0.015								
SW-4	21-Apr-05															
SW-4	11-Nov-05					0.001										
SW-4	13-Apr-06															
SW-4	8-Nov-06															
SW-4	20-Apr-07															0.025
SW-4	7-Nov-07															
SW-4	14-May-08			0.0218J			0.00328J		0.00481J	0.00551J						0.00512J
SW-4	4-Nov-08			0.0237J		0.00015J	0.0022J		0.00611J				**0.00141JB**			0.00636J
SW-4	18-Mar-09			0.0192J					0.00461JB				**0.00132JB**		0.00709JB	
SW-4	21-Oct-09			0.034JB			0.0036JB		**0.00798JB**						0.00247J	0.00672JB
SW-4	7-May-10			0.0325J											0.00230J	

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2B		**NS**	**0.05**	**NS**	**0.0065**	**0.002**	**0.05**	**NS**	**0.007***	**0.025**	**0.088**	**0.005**	**0.00006**	**NS**	**NS**	**0.05***
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
SW-5	31-Oct-95						0.012									
SW-5	27-Nov-96			0.044				0.002								0.012
SW-5	21-Apr-97															
SW-5	1-Nov-97															0.042
SW-5	11-May-98															
SW-5	23-Nov-98															
SW-5	14-Apr-99															
SW-5	30-Nov-99															
SW-5	6-Apr-00															
SW-5	15-Dec-00															
SW-5	17-Apr-01															
SW-5	29-Nov-01															
SW-5	3-Apr-02					0.001										
SW-5	6-Nov-02					0.001										
SW-5	15-Apr-03					0.001										
SW-5	29-Oct-03					0.001										
SW-5	8-Apr-04															
SW-5	18-Nov-04															
SW-5	21-Apr-05	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
SW-5	11-Nov-05	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
SW-5	13-Apr-06	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
SW-5	8-Nov-06															
SW-5	20-Apr-07	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
SW-5	7-Nov-07	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
SW-5	13-May-08		0.00279J	0.203		0.00021J	0.0452	0.0127	**0.0487**	**0.0382**	0.0137J	**0.0237**			0.116	0.0803
SW-5	3-Nov-08			0.0458J			0.0016J		0.00203J				**0.00096JB**			
SW-5	18-Mar-09			0.0448J			0.00493J		**0.0102B**				**0.00086JB**		0.0235JB	0.0265
SW-5	21-Oct-09		0.00579J	0.046JB			0.00378JB		**0.00808JB**						0.00493J	0.0046JB
SW-5	7-May-10			0.0368J											0.00275J	0.0132

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

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC2B		**NS**	**0.05**	**NS**	**0.0065**	**0.002**	**0.05**	**NS**	**0.007***	**0.025**	**0.088**	**0.005**	**0.00006**	**NS**	**NS**	**0.05***
SWSL		**0.006**	**0.010**	**0.1**	**0.001**	**0.001**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**0.01**	**0.01**	**0.0055**	**0.025**	**0.01**
SW-6	30-Nov-99															
SW-6	5-Apr-00															
SW-6	15-Dec-00															
SW-6	18-Apr-01															
SW-6	29-Nov-01															
SW-6	4-Apr-02															
SW-6	5-Nov-02															
SW-6	16-Apr-03															
SW-6	30-Oct-03															
SW-6	7-Apr-04													0.011		
SW-6	18-Nov-04															
SW-6	21-Apr-05															
SW-6	11-Nov-05															
SW-6	13-Apr-06															
SW-6	8-Nov-06															
SW-6	20-Apr-07															
SW-6	7-Nov-07															
SW-6	14-May-08			0.0488J			0.00441J		**0.00721J**	0.00671J						0.00576J
SW-6	5-Nov-08			0.0203J					0.00330J				**0.00118JB**			
SW-6	18-Mar-09			0.0221J					0.00601JB				**0.00137JB**	0.00593	0.00469JB	
SW-6	21-Oct-09			0.0356JB			0.00397JB		**0.00763JB**						0.00568J	0.00441JB
SW-6	7-May-10			0.0336J											0.00184J	

Notes:

All units are in milligrams per liter (parts per million)

- Concentration exceeds NC2B Surface Water Standards for Class C Waters

- Indicates result below detection limits

* - Action Level

NS - not sampled

dry - sampling location dry, no sample collected

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

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

Table 3D
Detected Surface Water Constituents - VOCs
May 2010 Semi-Annual Sampling Event
North Wake Lined 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		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10.8	11	NS
SWSL		100	1	3	100	100	5	1	1	5	5	1	1	1	1
SW-4	7-Nov-07				1.3J										
SW-4	14-May-08														
SW-4	4-Nov-08														
SW-4	18-Mar-09														
SW-4	21-Oct-09														
SW-4	7-May-10														
SW-5	7-Nov-07														
SW-5	13-May-08	7.75J													
SW-5	3-Nov-08														
SW-5	18-Mar-09														
SW-5	21-Oct-09														
SW-5	7-May-10														
SW-6	7-Nov-07	2.7J			3.1J			0.3J							
SW-6	14-May-08	3.36J	0.27J	0.38J					0.31J					0.12J	
SW-6	5-Nov-08											0.38J			
SW-6	18-Mar-09														
SW-6	21-Oct-09														
SW-6	7-May-10														

Notes:

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

- Concentration exceeds NC2B Surface Water Standards for Class C Waters

- Indicates result below detection limits

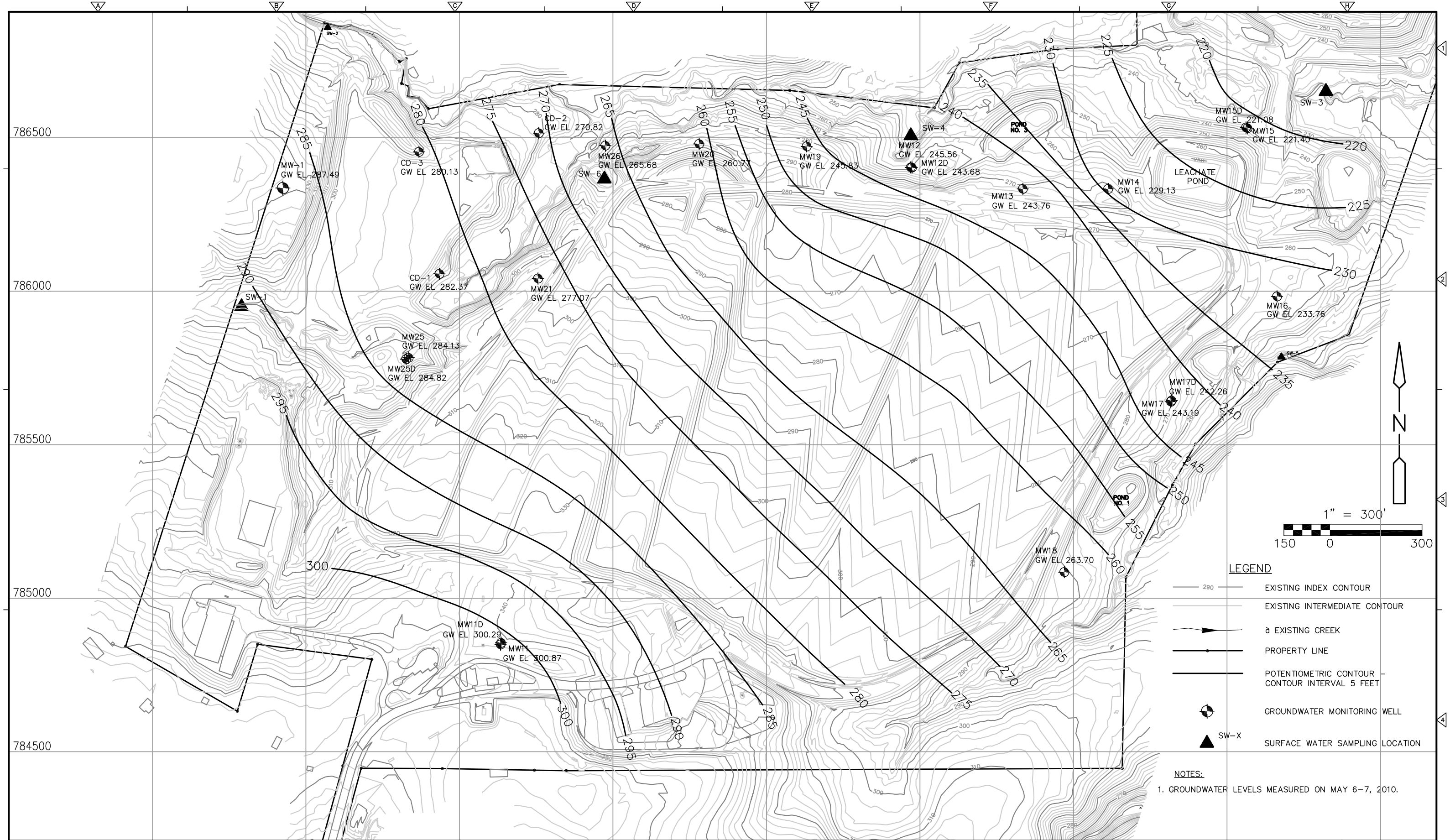
* - Action Level

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 Lined Landfill

WELL	MAY 2010 PARAMETERS STATISTICALLY OVER BACKGROUND	MAY 2010 PARAMETERS EXCEEDING NC 2L STANDARD
MW-11	Designated Background Well	None
MW-11D	Designated Background Well	**Vanadium[1]**
MW-12	None	Vanadium[1]
MW-12D	None	None
MW-13	Chromium	Barium, Chromium, Cobalt[1], Lead, Nickel, **Thallium[1]**, Vanadium[1], Zinc
MW-14	None	**Vanadium[1]**
MW-15	None	**Vanadium[1]**
MW-15D	None	**Vanadium[1]**
MW-16	None	**Vanadium[1]**
MW-17	Chromium	**Vanadium[1]**
MW-17D	None	**Antimony[1], Vanadium[1]**
MW-18	Chromium, Cobalt	Chromium, Vanadium[1]
MW-19	None	**Vanadium[1]**
MW-20	None	Chromium, Vanadium[1]
MW-21	None	**Vanadium[1]**
MW-25	None	Chromium, **Vanadium[1]**
MW-25D	Chromium	Chromium, Vanadium[1]
MW-26	Cobalt	**Vanadium[1]**

Notes:
[1] - Groundwater Protection Standard
Bold - Indicates a "J" flag detection in which the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Limit (SWSL)



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: AARON WEISPFENNING
DRAWN BY: AARON WEISPFENNING
SHEET CHK'D BY: MAT COLONE
CROSS CHK'D BY:
APPROVED BY: MAT COLONE
DATE: JUNE 2010

CDM
Camp Dresser & McKee
5400 Glenwood Avenue, Suite 300
Raleigh, NC 27612
Tel: (919) 787-5620 Fax: (919) 781-5730
consulting • engineering • construction • operations

WAKECOUNTY
NORTH CAROLINA

NORTH WAKE LINED LANDFILL

POTENTIOMETRIC CONTOUR MAP

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

SHEET NO.
1

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

Thursday, May 20, 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 Lined Landfill
ENCO Workorder: C005104

Dear Aaron Weispfenning,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, May 7, 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 74.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 9209-MW12 | Lab ID: C005104-01 | Sampled: 05/07/10 13:25 | Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10	10:28	5/12/2010 10:48
EPA 6020A	11/03/10	05/10/10	10:30	5/13/2010 11:34
EPA 8260B	05/21/10	05/11/10	13:30	5/11/2010 21:38

Client ID: 9209-MW12d | Lab ID: C005104-02 | Sampled: 05/06/10 16:20 | Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/02/10	05/10/10	10:28	5/12/2010 10:51
EPA 6020A	11/02/10	05/10/10	10:30	5/13/2010 11:38
EPA 8260B	05/20/10	05/11/10	13:30	5/11/2010 22:07

Client ID: 9209-MW13 | Lab ID: C005104-03 | Sampled: 05/07/10 14:00 | Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10	10:28	5/12/2010 10:53
EPA 6020A	11/03/10	05/10/10	10:30	5/13/2010 11:42
EPA 8260B	05/21/10	05/11/10	13:30	5/11/2010 22:35

Client ID: 9209-MW14 | Lab ID: C005104-04 | Sampled: 05/07/10 14:10 | Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10	10:28	5/12/2010 11:03
EPA 6020A	11/03/10	05/10/10	10:30	5/13/2010 11:45
EPA 8260B	05/21/10	05/11/10	13:30	5/11/2010 23:04

Client ID: 9209-MW15 | Lab ID: C005104-05 | Sampled: 05/07/10 11:35 | Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10	10:28	5/12/2010 11:05
EPA 6020A	11/03/10	05/10/10	10:30	5/13/2010 11:49
EPA 8260B	05/21/10	05/11/10	13:30	5/11/2010 23:32

Client ID: 9209-MW15d | Lab ID: C005104-06 | Sampled: 05/06/10 15:00 | Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/02/10	05/10/10	10:28	5/12/2010 11:08
EPA 6020A	11/02/10	05/10/10	10:30	5/13/2010 11:52
EPA 8260B	05/20/10	05/11/10	13:30	5/12/2010 00:00

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Client ID: 9209-MW16	Lab ID: C005104-07	Sampled: 05/07/10 10:00	Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10 10:28	5/12/2010 11:10
EPA 6020A	11/03/10	05/10/10 10:30	5/13/2010 12:03
EPA 8260B	05/21/10	05/11/10 13:30	5/12/2010 00:29

Client ID: 9209-MW17	Lab ID: C005104-08	Sampled: 05/07/10 11:00	Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10 10:28	5/12/2010 11:12
EPA 6020A	11/03/10	05/10/10 10:30	5/13/2010 12:07
EPA 8260B	05/21/10	05/11/10 13:30	5/12/2010 00:57

Client ID: 9209-MW17d	Lab ID: C005104-09	Sampled: 05/06/10 12:45	Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/02/10	05/10/10 10:28	5/12/2010 11:15
EPA 6020A	11/02/10	05/10/10 10:30	5/13/2010 12:10
EPA 8260B	05/20/10	05/11/10 13:30	5/12/2010 01:26

Client ID: 9209-MW18	Lab ID: C005104-10	Sampled: 05/07/10 10:30	Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10 10:28	5/12/2010 11:17
EPA 6020A	11/03/10	05/10/10 10:30	5/13/2010 12:14
EPA 8260B	05/21/10	05/13/10 08:20	5/13/2010 14:35

Client ID: 9209-MW19	Lab ID: C005104-11	Sampled: 05/07/10 13:05	Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10 10:28	5/12/2010 11:20
EPA 6020A	11/03/10	05/10/10 10:30	5/13/2010 12:18
EPA 8260B	05/21/10	05/13/10 08:20	5/13/2010 15:05

Client ID: 9209-MW20	Lab ID: C005104-12	Sampled: 05/07/10 12:50	Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10 10:28	5/12/2010 11:22
EPA 6020A	11/03/10	05/10/10 10:30	5/13/2010 12:21
EPA 8260B	05/21/10	05/13/10 08:20	5/13/2010 15:35

Client ID: 9209-MW21	Lab ID: C005104-13	Sampled: 05/07/10 12:10	Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10 10:28	5/12/2010 11:24
EPA 6020A	11/03/10	05/10/10 10:30	5/13/2010 12:25
EPA 8260B	05/21/10	05/13/10 08:20	5/13/2010 16:05

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Client ID: 9209-MW25	Lab ID: C005104-14	Sampled: 05/06/10 14:10	Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/02/10	05/10/10 10:28	5/12/2010 11:34
EPA 6020A	11/02/10	05/10/10 10:30	5/13/2010 12:29
EPA 8260B	05/20/10	05/13/10 08:20	5/13/2010 16:38

Client ID: 9209-MW25d	Lab ID: C005104-15	Sampled: 05/07/10 12:00	Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10 10:28	5/12/2010 11:36
EPA 6020A	11/03/10	05/10/10 10:30	5/13/2010 12:32
EPA 8260B	05/21/10	05/13/10 08:20	5/13/2010 17:08

Client ID: 9209-MW26	Lab ID: C005104-16	Sampled: 05/07/10 12:30	Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10 10:28	5/12/2010 11:39
EPA 6020A	11/03/10	05/10/10 10:30	5/13/2010 12:36
EPA 8260B	05/21/10	05/13/10 08:20	5/13/2010 17:38

Client ID: 9209-DUP	Lab ID: C005104-17	Sampled: 05/06/10 12:00	Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/02/10	05/10/10 10:28	5/12/2010 11:41
EPA 6020A	11/02/10	05/10/10 10:30	5/13/2010 11:09
EPA 8260B	05/20/10	05/13/10 08:20	5/13/2010 18:07

Client ID: 9209-EQBlank	Lab ID: C005104-18	Sampled: 05/06/10 16:30	Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/02/10	05/10/10 10:28	5/12/2010 10:35
EPA 6020A	11/02/10	05/10/10 10:30	5/13/2010 12:47
EPA 8260B	05/20/10	05/13/10 08:20	5/13/2010 18:37

Client ID: 9209-TripBlank	Lab ID: C005104-19	Sampled: 05/06/10 12:00	Received: 05/07/10 15:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	05/20/10	05/13/10 08:20	5/13/2010 19:07

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 9209-MW12 **Lab ID: C005104-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	190		1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.549	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	8.35	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	8.31	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	39.2		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	4.93	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.72	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	0.929	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Thallium - Total	0.176	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	39.6		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	50.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW12d **Lab ID: C005104-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	19.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Total	8.62	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	2.58	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 9209-MW13 **Lab ID: C005104-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	4.10	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	838		1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	1.26		1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	210		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	81.4		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	16.4		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	22.7		1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	107		1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.707	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	274		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	339		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW14 **Lab ID: C005104-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	24.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	2.10	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	4.86	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	4.84	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW15 **Lab ID: C005104-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	141		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	7.87	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	7.61	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	13.8		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	3.02	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.15	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	23.9	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 9209-MW15 **Lab ID: C005104-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Zinc - Total	22.8		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW15d **Lab ID: C005104-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.526	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	61.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.364	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	4.03	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	4.30	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	4.36	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW16 **Lab ID: C005104-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.329	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	124		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	1.77	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.10	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	8.41	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.68	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	4.90	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	30.4		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW17 **Lab ID: C005104-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	38.1	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.220	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	10.6		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	2.43	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.93	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	4.53	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	20.2	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	28.0		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW17d **Lab ID: C005104-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	2.17	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	31.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.946	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	2.25	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.69	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	4.95	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	17.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW18 **Lab ID: C005104-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	253		1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.624	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	90.1		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	36.9		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	117		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	6.27	J	1	1.90	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW18 **Lab ID: C005104-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Nickel - Total	38.8	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.128	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	81.4		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	103		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW19 **Lab ID: C005104-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	22.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.446	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	7.81	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.30	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	7.85	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.47	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	4.74	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	22.0		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW20 **Lab ID: C005104-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	165		1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.656	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	17.2		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	27.8		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	190		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	12.2		1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	25.9	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	
Thallium - Total	0.129	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	53.8		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	92.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW21 **Lab ID: C005104-13**

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	3.23	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	4.61	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	24.9		1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	19.2	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	24.9		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW25 **Lab ID: C005104-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	118		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	15.4		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	5.27	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	6.37	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.93	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	7.24	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	15.0	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	21.3		1	3.80	10.0	10	ug/L	EPA 6010C	

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Client ID: 9209-MW25d **Lab ID: C005104-15**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	112		1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.430	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	16.4		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	10.9		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	61.3		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.90	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	14.4	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	32.7		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	44.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW26 **Lab ID: C005104-16**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	39.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	2.58	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	11.4		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	24.7		1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	7.11	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	9.92	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	21.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-DUP **Lab ID: C005104-17**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	1.88	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	32.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.825	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	2.51	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.57	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	4.52	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	11.8		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-EQBlank **Lab ID: C005104-18**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	19	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Toluene	0.45	J	1	0.053	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	0.44	J	1	0.22	1.0	5	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: 9209-MW12 | **Lab Sample ID:** C005104-01 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 13:25 | **Work Order:** C005104

Project: N Wake Lined 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	05/11/10 21:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/11/10 21:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/11/10 21:38	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/11/10 21:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/11/10 21:38	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/11/10 21:38	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/11/10 21:38	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/11/10 21:38	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/11/10 21:38	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/11/10 21:38	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/11/10 21:38	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/11/10 21:38	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/11/10 21:38	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/11/10 21:38	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/11/10 21:38	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/11/10 21:38	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/11/10 21:38	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/11/10 21:38	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/11/10 21:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/11/10 21:38	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/11/10 21:38	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/11/10 21:38	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/11/10 21:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/11/10 21:38	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/11/10 21:38	JKG	

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Description: 9209-MW12 | **Lab Sample ID:** C005104-01 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 13:25 | **Work Order:** C005104

Project: N Wake Lined 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
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/11/10 21:38	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/11/10 21:38	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/11/10 21:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*0E11020*	*EPA 8260B*	*05/11/10 21:38*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*0E11020*	*EPA 8260B*	*05/11/10 21:38*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*93 %*	*69-110*	*0E11020*	*EPA 8260B*	*05/11/10 21:38*	*JKG*	

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Description: 9209-MW12 | **Lab Sample ID:** C005104-01 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 13:25 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 11:34	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 10:48	JDH	
Barium [7440-39-3] ^	**190**		ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 10:48	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 10:48	JDH	
Cadmium [7440-43-9] ^	**0.549**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 10:48	JDH	
Chromium [7440-47-3] ^	**8.35**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 10:48	JDH	
Cobalt [7440-48-4] ^	**8.31**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 10:48	JDH	
Copper [7440-50-8] ^	**39.2**		ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 10:48	JDH	
Lead [7439-92-1] ^	**4.93**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 10:48	JDH	
Nickel [7440-02-0] ^	**2.72**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 10:48	JDH	
Selenium [7782-49-2] ^	**0.929**	J	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 11:34	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 10:48	JDH	
Thallium [7440-28-0] ^	**0.176**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 11:34	VLO	
Vanadium [7440-62-2] ^	**39.6**		ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 10:48	JDH	
Zinc [7440-66-6] ^	**50.5**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 10:48	JDH	

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Description: 9209-MW12d
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-02
Sampled: 05/06/10 16:20
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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	05/11/10 22:07	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/11/10 22:07	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/11/10 22:07	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/11/10 22:07	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/11/10 22:07	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/11/10 22:07	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/11/10 22:07	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/11/10 22:07	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/11/10 22:07	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/11/10 22:07	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/11/10 22:07	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/11/10 22:07	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/11/10 22:07	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/11/10 22:07	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/11/10 22:07	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/11/10 22:07	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/11/10 22:07	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/11/10 22:07	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/11/10 22:07	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/11/10 22:07	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/11/10 22:07	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/11/10 22:07	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/11/10 22:07	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/11/10 22:07	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 22:07	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/11/10 22:07	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/11/10 22:07	JKG	

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Description: 9209-MW12d
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-02
Sampled: 05/06/10 16:20
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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	05/11/10 22:07	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*0E11020*	*EPA 8260B*	*05/11/10 22:07*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*0E11020*	*EPA 8260B*	*05/11/10 22:07*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E11020*	*EPA 8260B*	*05/11/10 22:07*	*JKG*	

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Description: 9209-MW12d
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-02
Sampled: 05/06/10 16:20
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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	05/13/10 11:38	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 10:51	JDH	
Barium [7440-39-3] ^	**19.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 10:51	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 10:51	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 10:51	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 10:51	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 10:51	JDH	
Copper [7440-50-8] ^	**8.62**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 10:51	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 10:51	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 10:51	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 11:38	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 10:51	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 11:38	VLO	
Vanadium [7440-62-2] ^	**2.58**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 10:51	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 10:51	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-MW13 | **Lab Sample ID:** C005104-03 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 14:00 | **Work Order:** C005104

Project: N Wake Lined 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	05/11/10 22:35	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/11/10 22:35	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/11/10 22:35	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/11/10 22:35	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/11/10 22:35	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/11/10 22:35	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/11/10 22:35	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/11/10 22:35	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/11/10 22:35	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/11/10 22:35	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/11/10 22:35	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/11/10 22:35	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/11/10 22:35	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/11/10 22:35	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/11/10 22:35	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/11/10 22:35	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/11/10 22:35	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/11/10 22:35	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/11/10 22:35	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/11/10 22:35	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/11/10 22:35	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/11/10 22:35	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/11/10 22:35	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/11/10 22:35	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 22:35	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/11/10 22:35	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/11/10 22:35	JKG	

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Description: 9209-MW13 | **Lab Sample ID:** C005104-03 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 14:00 | **Work Order:** C005104

Project: N Wake Lined 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
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/11/10 22:35	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0E11020*	*EPA 8260B*	*05/11/10 22:35*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*99 %*	*68-117*	*0E11020*	*EPA 8260B*	*05/11/10 22:35*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*93 %*	*69-110*	*0E11020*	*EPA 8260B*	*05/11/10 22:35*	*JKG*	

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Description: 9209-MW13 | **Lab Sample ID:** C005104-03 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 14:00 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 11:42	VLO	
Arsenic [7440-38-2] ^	**4.10**	J	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 10:53	JDH	
Barium [7440-39-3] ^	**838**		ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 10:53	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 10:53	JDH	
Cadmium [7440-43-9] ^	**1.26**		ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 10:53	JDH	
Chromium [7440-47-3] ^	**210**		ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 10:53	JDH	
Cobalt [7440-48-4] ^	**81.4**		ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 10:53	JDH	
Copper [7440-50-8] ^	**16.4**		ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 10:53	JDH	
Lead [7439-92-1] ^	**22.7**		ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 10:53	JDH	
Nickel [7440-02-0] ^	**107**		ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 10:53	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 11:42	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 10:53	JDH	
Thallium [7440-28-0] ^	**0.707**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 11:42	VLO	
Vanadium [7440-62-2] ^	**274**		ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 10:53	JDH	
Zinc [7440-66-6] ^	**339**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 10:53	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-MW14 | **Lab Sample ID:** C005104-04 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 14:10 | **Work Order:** C005104

Project: N Wake Lined 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	05/11/10 23:04	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/11/10 23:04	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/11/10 23:04	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/11/10 23:04	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/11/10 23:04	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/11/10 23:04	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/11/10 23:04	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/11/10 23:04	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/11/10 23:04	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/11/10 23:04	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/11/10 23:04	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/11/10 23:04	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/11/10 23:04	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/11/10 23:04	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/11/10 23:04	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/11/10 23:04	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/11/10 23:04	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/11/10 23:04	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/11/10 23:04	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/11/10 23:04	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/11/10 23:04	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/11/10 23:04	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/11/10 23:04	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/11/10 23:04	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 23:04	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/11/10 23:04	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/11/10 23:04	JKG	

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Description: 9209-MW14 | **Lab Sample ID:** C005104-04 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 14:10 | **Work Order:** C005104

Project: N Wake Lined 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
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/11/10 23:04	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*0E11020*	*EPA 8260B*	*05/11/10 23:04*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*0E11020*	*EPA 8260B*	*05/11/10 23:04*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E11020*	*EPA 8260B*	*05/11/10 23:04*	*JKG*	

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Description: 9209-MW14 | **Lab Sample ID:** C005104-04 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 14:10 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 11:45	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:03	JDH	
Barium [7440-39-3] ^	**24.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:03	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:03	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:03	JDH	
Chromium [7440-47-3] ^	**2.10**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:03	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:03	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:03	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:03	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:03	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 11:45	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:03	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 11:45	VLO	
Vanadium [7440-62-2] ^	**4.86**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:03	JDH	
Zinc [7440-66-6] ^	**4.84**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 11:03	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-MW15 | **Lab Sample ID:** C005104-05 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 11:35 | **Work Order:** C005104

Project: N Wake Lined 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	05/11/10 23:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/11/10 23:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/11/10 23:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/11/10 23:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/11/10 23:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/11/10 23:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/11/10 23:32	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/11/10 23:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/11/10 23:32	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/11/10 23:32	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/11/10 23:32	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/11/10 23:32	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/11/10 23:32	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/11/10 23:32	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/11/10 23:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/11/10 23:32	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/11/10 23:32	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/11/10 23:32	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/11/10 23:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/11/10 23:32	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/11/10 23:32	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/11/10 23:32	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/11/10 23:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/11/10 23:32	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/11/10 23:32	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/11/10 23:32	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/11/10 23:32	JKG	

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Description: 9209-MW15 | **Lab Sample ID:** C005104-05 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 11:35 | **Work Order:** C005104

Project: N Wake Lined 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
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/11/10 23:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0E11020*	*EPA 8260B*	*05/11/10 23:32*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*0E11020*	*EPA 8260B*	*05/11/10 23:32*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E11020*	*EPA 8260B*	*05/11/10 23:32*	*JKG*	

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Description: 9209-MW15 | **Lab Sample ID:** C005104-05 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 11:35 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 11:49	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:05	JDH	
Barium [7440-39-3] ^	**141**		ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:05	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:05	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:05	JDH	
Chromium [7440-47-3] ^	**7.87**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:05	JDH	
Cobalt [7440-48-4] ^	**7.61**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:05	JDH	
Copper [7440-50-8] ^	**13.8**		ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:05	JDH	
Lead [7439-92-1] ^	**3.02**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:05	JDH	
Nickel [7440-02-0] ^	**3.15**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:05	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 11:49	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:05	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 11:49	VLO	
Vanadium [7440-62-2] ^	**23.9**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:05	JDH	
Zinc [7440-66-6] ^	**22.8**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 11:05	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-MW15d
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-06
Sampled: 05/06/10 15:00
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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

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Description: 9209-MW15d
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-06
Sampled: 05/06/10 15:00
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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	05/12/10 00:00	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*0E11020*	*EPA 8260B*	*05/12/10 00:00*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*0E11020*	*EPA 8260B*	*05/12/10 00:00*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E11020*	*EPA 8260B*	*05/12/10 00:00*	*JKG*	

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Description: 9209-MW15d
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-06
Sampled: 05/06/10 15:00
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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] ^	**0.526**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/13/10 11:52	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:08	JDH	
Barium [7440-39-3] ^	**61.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:08	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:08	JDH	
Cadmium [7440-43-9] ^	**0.364**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:08	JDH	
Chromium [7440-47-3] ^	**4.03**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:08	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:08	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:08	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:08	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:08	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 11:52	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:08	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 11:52	VLO	
Vanadium [7440-62-2] ^	**4.30**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:08	JDH	
Zinc [7440-66-6] ^	**4.36**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 11:08	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-MW16 | **Lab Sample ID:** C005104-07 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 10:00 | **Work Order:** C005104

Project: N Wake Lined 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	05/12/10 00:29	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/12/10 00:29	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/12/10 00:29	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/12/10 00:29	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/12/10 00:29	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/12/10 00:29	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/12/10 00:29	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/12/10 00:29	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/12/10 00:29	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/12/10 00:29	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/12/10 00:29	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/12/10 00:29	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/12/10 00:29	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/12/10 00:29	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/12/10 00:29	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/12/10 00:29	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/12/10 00:29	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/12/10 00:29	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/12/10 00:29	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/12/10 00:29	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/12/10 00:29	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/12/10 00:29	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/12/10 00:29	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/12/10 00:29	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/12/10 00:29	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/12/10 00:29	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/12/10 00:29	JKG	

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Description: 9209-MW16 | **Lab Sample ID:** C005104-07 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 10:00 | **Work Order:** C005104

Project: N Wake Lined 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
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/12/10 00:29	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0E11020*	*EPA 8260B*	*05/12/10 00:29*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*97 %*	*68-117*	*0E11020*	*EPA 8260B*	*05/12/10 00:29*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E11020*	*EPA 8260B*	*05/12/10 00:29*	*JKG*	

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Description: 9209-MW16 | **Lab Sample ID:** C005104-07 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 10:00 | **Work Order:** C005104

Project: N Wake Lined 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] ^	**0.329**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/13/10 12:03	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:10	JDH	
Barium [7440-39-3] ^	**124**		ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:10	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:10	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:10	JDH	
Chromium [7440-47-3] ^	**1.77**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:10	JDH	
Cobalt [7440-48-4] ^	**3.10**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:10	JDH	
Copper [7440-50-8] ^	**8.41**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:10	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:10	JDH	
Nickel [7440-02-0] ^	**2.68**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:10	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 12:03	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:10	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 12:03	VLO	
Vanadium [7440-62-2] ^	**4.90**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:10	JDH	
Zinc [7440-66-6] ^	**30.4**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 11:10	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-MW17 | **Lab Sample ID:** C005104-08 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 11:00 | **Work Order:** C005104

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

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Description: 9209-MW17 | **Lab Sample ID:** C005104-08 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 11:00 | **Work Order:** C005104

Project: N Wake Lined 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
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/12/10 00:57	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*0E11020*	*EPA 8260B*	*05/12/10 00:57*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*0E11020*	*EPA 8260B*	*05/12/10 00:57*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0E11020*	*EPA 8260B*	*05/12/10 00:57*	*JKG*	

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Description: 9209-MW17 | **Lab Sample ID:** C005104-08 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 11:00 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 12:07	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:12	JDH	
Barium [7440-39-3] ^	**38.1**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:12	JDH	
Beryllium [7440-41-7] ^	**0.220**	J	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:12	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:12	JDH	
Chromium [7440-47-3] ^	**10.6**		ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:12	JDH	
Cobalt [7440-48-4] ^	**2.43**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:12	JDH	
Copper [7440-50-8] ^	**4.93**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:12	JDH	
Lead [7439-92-1] ^	**4.53**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:12	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:12	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 12:07	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:12	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 12:07	VLO	
Vanadium [7440-62-2] ^	**20.2**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:12	JDH	
Zinc [7440-66-6] ^	**28.0**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 11:12	JDH	

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

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Description: 9209-MW17d
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-09
Sampled: 05/06/10 12:45
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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	05/12/10 01:26	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/12/10 01:26	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/12/10 01:26	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/12/10 01:26	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/12/10 01:26	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/12/10 01:26	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/12/10 01:26	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/12/10 01:26	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/12/10 01:26	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/12/10 01:26	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/12/10 01:26	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/12/10 01:26	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/12/10 01:26	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/12/10 01:26	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/12/10 01:26	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/12/10 01:26	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/12/10 01:26	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/12/10 01:26	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/12/10 01:26	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/12/10 01:26	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/12/10 01:26	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/12/10 01:26	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/12/10 01:26	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/12/10 01:26	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/12/10 01:26	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/12/10 01:26	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/12/10 01:26	JKG	

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Description: 9209-MW17d
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-09
Sampled: 05/06/10 12:45
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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	05/12/10 01:26	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*51-122*	*0E11020*	*EPA 8260B*	*05/12/10 01:26*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*68-117*	*0E11020*	*EPA 8260B*	*05/12/10 01:26*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*69-110*	*0E11020*	*EPA 8260B*	*05/12/10 01:26*	*JKG*	

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Description: 9209-MW17d
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-09
Sampled: 05/06/10 12:45
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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] ^	**2.17**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/13/10 12:10	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:15	JDH	
Barium [7440-39-3] ^	**31.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:15	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:15	JDH	
Cadmium [7440-43-9] ^	**0.946**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:15	JDH	
Chromium [7440-47-3] ^	**2.25**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:15	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:15	JDH	
Copper [7440-50-8] ^	**3.69**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:15	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:15	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:15	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 12:10	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:15	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 12:10	VLO	
Vanadium [7440-62-2] ^	**4.95**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:15	JDH	
Zinc [7440-66-6] ^	**17.5**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 11:15	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-MW18 | **Lab Sample ID:** C005104-10 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 10:30 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 14:35	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/13/10 14:35	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/13/10 14:35	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/13/10 14:35	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/13/10 14:35	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/13/10 14:35	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/13/10 14:35	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/13/10 14:35	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/13/10 14:35	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/13/10 14:35	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/13/10 14:35	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/13/10 14:35	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/13/10 14:35	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/13/10 14:35	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/13/10 14:35	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/13/10 14:35	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/13/10 14:35	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/13/10 14:35	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/13/10 14:35	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/13/10 14:35	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/13/10 14:35	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/13/10 14:35	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/13/10 14:35	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/13/10 14:35	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 14:35	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/13/10 14:35	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/13/10 14:35	JKG	

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Description: 9209-MW18 | **Lab Sample ID:** C005104-10 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 10:30 | **Work Order:** C005104

Project: N Wake Lined 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
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/13/10 14:35	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*51-122*	*0E13008*	*EPA 8260B*	*05/13/10 14:35*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*85 %*	*68-117*	*0E13008*	*EPA 8260B*	*05/13/10 14:35*	*JKG*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*69-110*	*0E13008*	*EPA 8260B*	*05/13/10 14:35*	*JKG*	

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Description: 9209-MW18 | **Lab Sample ID:** C005104-10 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 10:30 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 12:14	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:17	JDH	
Barium [7440-39-3] ^	**253**		ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:17	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:17	JDH	
Cadmium [7440-43-9] ^	**0.624**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:17	JDH	
Chromium [7440-47-3] ^	**90.1**		ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:17	JDH	
Cobalt [7440-48-4] ^	**36.9**		ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:17	JDH	
Copper [7440-50-8] ^	**117**		ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:17	JDH	
Lead [7439-92-1] ^	**6.27**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:17	JDH	
Nickel [7440-02-0] ^	**38.8**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:17	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 12:14	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:17	JDH	
Thallium [7440-28-0] ^	**0.128**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 12:14	VLO	
Vanadium [7440-62-2] ^	**81.4**		ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:17	JDH	
Zinc [7440-66-6] ^	**103**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 11:17	JDH	

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

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Description: 9209-MW19 | **Lab Sample ID:** C005104-11 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 13:05 | **Work Order:** C005104

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

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Description: 9209-MW19 | **Lab Sample ID:** C005104-11 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 13:05 | **Work Order:** C005104

Project: N Wake Lined 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
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/13/10 15:05	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*83 %*	*51-122*	*0E13008*	*EPA 8260B*	*05/13/10 15:05*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*83 %*	*68-117*	*0E13008*	*EPA 8260B*	*05/13/10 15:05*	*JKG*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*69-110*	*0E13008*	*EPA 8260B*	*05/13/10 15:05*	*JKG*	

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Description: 9209-MW19 | **Lab Sample ID:** C005104-11 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 13:05 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 12:18	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:20	JDH	
Barium [7440-39-3] ^	**22.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:20	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:20	JDH	
Cadmium [7440-43-9] ^	**0.446**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:20	JDH	
Chromium [7440-47-3] ^	**7.81**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:20	JDH	
Cobalt [7440-48-4] ^	**1.30**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:20	JDH	
Copper [7440-50-8] ^	**7.85**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:20	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:20	JDH	
Nickel [7440-02-0] ^	**2.47**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:20	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 12:18	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:20	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 12:18	VLO	
Vanadium [7440-62-2] ^	**4.74**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:20	JDH	
Zinc [7440-66-6] ^	**22.0**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 11:20	JDH	

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

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Description: 9209-MW20 | **Lab Sample ID:** C005104-12 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 12:50 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 15:35	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/13/10 15:35	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/13/10 15:35	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/13/10 15:35	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/13/10 15:35	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/13/10 15:35	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/13/10 15:35	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/13/10 15:35	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/13/10 15:35	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/13/10 15:35	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/13/10 15:35	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/13/10 15:35	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/13/10 15:35	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/13/10 15:35	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/13/10 15:35	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/13/10 15:35	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/13/10 15:35	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/13/10 15:35	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/13/10 15:35	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/13/10 15:35	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/13/10 15:35	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/13/10 15:35	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
Tetrachloroethene [127-18-4] ^	**0.64**	J	ug/L	1	0.099	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/13/10 15:35	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/13/10 15:35	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 15:35	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/13/10 15:35	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/13/10 15:35	JKG	

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Description: 9209-MW20 | **Lab Sample ID:** C005104-12 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 12:50 | **Work Order:** C005104

Project: N Wake Lined 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
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/13/10 15:35	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*83 %*	*51-122*	*0E13008*	*EPA 8260B*	*05/13/10 15:35*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*0E13008*	*EPA 8260B*	*05/13/10 15:35*	*JKG*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*69-110*	*0E13008*	*EPA 8260B*	*05/13/10 15:35*	*JKG*	

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Description: 9209-MW20 | **Lab Sample ID:** C005104-12 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 12:50 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 12:21	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:22	JDH	
Barium [7440-39-3] ^	**165**		ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:22	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:22	JDH	
Cadmium [7440-43-9] ^	**0.656**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:22	JDH	
Chromium [7440-47-3] ^	**17.2**		ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:22	JDH	
Cobalt [7440-48-4] ^	**27.8**		ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:22	JDH	
Copper [7440-50-8] ^	**190**		ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:22	JDH	
Lead [7439-92-1] ^	**12.2**		ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:22	JDH	
Nickel [7440-02-0] ^	**25.9**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:22	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 12:21	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:22	JDH	
Thallium [7440-28-0] ^	**0.129**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 12:21	VLO	
Vanadium [7440-62-2] ^	**53.8**		ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:22	JDH	
Zinc [7440-66-6] ^	**92.5**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 11:22	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-MW21 | **Lab Sample ID:** C005104-13 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 12:10 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 16:05	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/13/10 16:05	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/13/10 16:05	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/13/10 16:05	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/13/10 16:05	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/13/10 16:05	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/13/10 16:05	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/13/10 16:05	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/13/10 16:05	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/13/10 16:05	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/13/10 16:05	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/13/10 16:05	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/13/10 16:05	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/13/10 16:05	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/13/10 16:05	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/13/10 16:05	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/13/10 16:05	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/13/10 16:05	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/13/10 16:05	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/13/10 16:05	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/13/10 16:05	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/13/10 16:05	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/13/10 16:05	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/13/10 16:05	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 16:05	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/13/10 16:05	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/13/10 16:05	JKG	

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Description: 9209-MW21 | **Lab Sample ID:** C005104-13 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 12:10 | **Work Order:** C005104

Project: N Wake Lined 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
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/13/10 16:05	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*85 %*	*51-122*	*0E13008*	*EPA 8260B*	*05/13/10 16:05*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*89 %*	*68-117*	*0E13008*	*EPA 8260B*	*05/13/10 16:05*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0E13008*	*EPA 8260B*	*05/13/10 16:05*	*JKG*	

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Description: 9209-MW21 | **Lab Sample ID:** C005104-13 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 12:10 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 12:25	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:24	JDH	
Barium [7440-39-3] ^	**124**		ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:24	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:24	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:24	JDH	
Chromium [7440-47-3] ^	**3.23**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:24	JDH	
Cobalt [7440-48-4] ^	**4.61**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:24	JDH	
Copper [7440-50-8] ^	**24.9**		ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:24	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:24	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:24	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 12:25	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:24	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 12:25	VLO	
Vanadium [7440-62-2] ^	**19.2**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:24	JDH	
Zinc [7440-66-6] ^	**24.9**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 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-MW25 | **Lab Sample ID:** C005104-14 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/06/10 14:10 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 16:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/13/10 16:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/13/10 16:38	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/13/10 16:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/13/10 16:38	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/13/10 16:38	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/13/10 16:38	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/13/10 16:38	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/13/10 16:38	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/13/10 16:38	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/13/10 16:38	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/13/10 16:38	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/13/10 16:38	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/13/10 16:38	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/13/10 16:38	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/13/10 16:38	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/13/10 16:38	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/13/10 16:38	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/13/10 16:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/13/10 16:38	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/13/10 16:38	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/13/10 16:38	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/13/10 16:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/13/10 16:38	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 16:38	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/13/10 16:38	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/13/10 16:38	JKG	

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Description: 9209-MW25 | **Lab Sample ID:** C005104-14 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/06/10 14:10 | **Work Order:** C005104

Project: N Wake Lined 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
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/13/10 16:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*81 %*	*51-122*	*0E13008*	*EPA 8260B*	*05/13/10 16:38*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*0E13008*	*EPA 8260B*	*05/13/10 16:38*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0E13008*	*EPA 8260B*	*05/13/10 16:38*	*JKG*	

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Description: 9209-MW25 | **Lab Sample ID:** C005104-14 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/06/10 14:10 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 12:29	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:34	JDH	
Barium [7440-39-3] ^	**118**		ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:34	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:34	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:34	JDH	
Chromium [7440-47-3] ^	**15.4**		ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:34	JDH	
Cobalt [7440-48-4] ^	**5.27**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:34	JDH	
Copper [7440-50-8] ^	**6.37**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:34	JDH	
Lead [7439-92-1] ^	**2.93**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:34	JDH	
Nickel [7440-02-0] ^	**7.24**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:34	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 12:29	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:34	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 12:29	VLO	
Vanadium [7440-62-2] ^	**15.0**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:34	JDH	
Zinc [7440-66-6] ^	**21.3**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 11:34	JDH	

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

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Description: 9209-MW25d
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-15
Sampled: 05/07/10 12:00
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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	05/13/10 17:08	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/13/10 17:08	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/13/10 17:08	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/13/10 17:08	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/13/10 17:08	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/13/10 17:08	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/13/10 17:08	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/13/10 17:08	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/13/10 17:08	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/13/10 17:08	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/13/10 17:08	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/13/10 17:08	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/13/10 17:08	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/13/10 17:08	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/13/10 17:08	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/13/10 17:08	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/13/10 17:08	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/13/10 17:08	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/13/10 17:08	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/13/10 17:08	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/13/10 17:08	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/13/10 17:08	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/13/10 17:08	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/13/10 17:08	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 17:08	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/13/10 17:08	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/13/10 17:08	JKG	

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Description: 9209-MW25d
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-15
Sampled: 05/07/10 12:00
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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	05/13/10 17:08	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*51-122*	*0E13008*	*EPA 8260B*	*05/13/10 17:08*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*85 %*	*68-117*	*0E13008*	*EPA 8260B*	*05/13/10 17:08*	*JKG*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*69-110*	*0E13008*	*EPA 8260B*	*05/13/10 17:08*	*JKG*	

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Description: 9209-MW25d
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-15
Sampled: 05/07/10 12:00
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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	05/13/10 12:32	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:36	JDH	
Barium [7440-39-3] ^	**112**		ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:36	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:36	JDH	
Cadmium [7440-43-9] ^	**0.430**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:36	JDH	
Chromium [7440-47-3] ^	**16.4**		ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:36	JDH	
Cobalt [7440-48-4] ^	**10.9**		ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:36	JDH	
Copper [7440-50-8] ^	**61.3**		ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:36	JDH	
Lead [7439-92-1] ^	**2.90**	J	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:36	JDH	
Nickel [7440-02-0] ^	**14.4**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:36	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 12:32	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:36	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 12:32	VLO	
Vanadium [7440-62-2] ^	**32.7**		ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:36	JDH	
Zinc [7440-66-6] ^	**44.3**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 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-MW26 | **Lab Sample ID:** C005104-16 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 12:30 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 17:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/13/10 17:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/13/10 17:38	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/13/10 17:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/13/10 17:38	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/13/10 17:38	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/13/10 17:38	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/13/10 17:38	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/13/10 17:38	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/13/10 17:38	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/13/10 17:38	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/13/10 17:38	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/13/10 17:38	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/13/10 17:38	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/13/10 17:38	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/13/10 17:38	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/13/10 17:38	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/13/10 17:38	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/13/10 17:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/13/10 17:38	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/13/10 17:38	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/13/10 17:38	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/13/10 17:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/13/10 17:38	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 17:38	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/13/10 17:38	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/13/10 17:38	JKG	

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Description: 9209-MW26 | **Lab Sample ID:** C005104-16 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 12:30 | **Work Order:** C005104

Project: N Wake Lined 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
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/13/10 17:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*83 %*	*51-122*	*0E13008*	*EPA 8260B*	*05/13/10 17:38*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*0E13008*	*EPA 8260B*	*05/13/10 17:38*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*69-110*	*0E13008*	*EPA 8260B*	*05/13/10 17:38*	*JKG*	

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Description: 9209-MW26 | **Lab Sample ID:** C005104-16 | **Received:** 05/07/10 15:25

Matrix: Ground Water | **Sampled:** 05/07/10 12:30 | **Work Order:** C005104

Project: N Wake Lined 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	05/13/10 12:36	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:39	JDH	
Barium [7440-39-3] ^	**39.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:39	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:39	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:39	JDH	
Chromium [7440-47-3] ^	**2.58**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:39	JDH	
Cobalt [7440-48-4] ^	**11.4**		ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:39	JDH	
Copper [7440-50-8] ^	**24.7**		ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:39	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:39	JDH	
Nickel [7440-02-0] ^	**7.11**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:39	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 12:36	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:39	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 12:36	VLO	
Vanadium [7440-62-2] ^	**9.92**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:39	JDH	
Zinc [7440-66-6] ^	**21.5**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 11:39	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: N Wake Lined Landfill

Lab Sample ID: C005104-17
Sampled: 05/06/10 12:00
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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	05/13/10 18:07	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/13/10 18:07	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/13/10 18:07	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/13/10 18:07	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/13/10 18:07	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/13/10 18:07	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/13/10 18:07	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/13/10 18:07	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/13/10 18:07	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/13/10 18:07	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/13/10 18:07	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/13/10 18:07	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/13/10 18:07	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/13/10 18:07	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/13/10 18:07	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/13/10 18:07	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/13/10 18:07	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/13/10 18:07	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/13/10 18:07	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/13/10 18:07	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/13/10 18:07	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/13/10 18:07	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/13/10 18:07	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/13/10 18:07	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 18:07	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/13/10 18:07	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/13/10 18:07	JKG	

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Description: 9209-DUP
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-17
Sampled: 05/06/10 12:00
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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	05/13/10 18:07	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*51-122*	*0E13008*	*EPA 8260B*	*05/13/10 18:07*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*0E13008*	*EPA 8260B*	*05/13/10 18:07*	*JKG*	
Toluene-d8	*40*	*1*	*50.0*	*80 %*	*69-110*	*0E13008*	*EPA 8260B*	*05/13/10 18:07*	*JKG*	

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Description: 9209-DUP
Matrix: Ground Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-17
Sampled: 05/06/10 12:00
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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] ^	**1.88**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/13/10 11:09	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 11:41	JDH	
Barium [7440-39-3] ^	**32.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 11:41	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 11:41	JDH	
Cadmium [7440-43-9] ^	**0.825**	J	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 11:41	JDH	
Chromium [7440-47-3] ^	**2.51**	J	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 11:41	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 11:41	JDH	
Copper [7440-50-8] ^	**3.57**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 11:41	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:41	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 11:41	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 11:09	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 11:41	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 11:09	VLO	
Vanadium [7440-62-2] ^	**4.52**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 11:41	JDH	
Zinc [7440-66-6] ^	**11.8**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 11:41	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-EQBlank
Matrix: Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-18
Sampled: 05/06/10 16:30
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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	05/13/10 18:37	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/13/10 18:37	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/13/10 18:37	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/13/10 18:37	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/13/10 18:37	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/13/10 18:37	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/13/10 18:37	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/13/10 18:37	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/13/10 18:37	JKG	
Acetone [67-64-1] ^	**19**	J	ug/L	1	1.5	5.0	100	EPA 8260B	05/13/10 18:37	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/13/10 18:37	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/13/10 18:37	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/13/10 18:37	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/13/10 18:37	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/13/10 18:37	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/13/10 18:37	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/13/10 18:37	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/13/10 18:37	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/13/10 18:37	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/13/10 18:37	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/13/10 18:37	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/13/10 18:37	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
Toluene [108-88-3] ^	**0.45**	J	ug/L	1	0.053	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/13/10 18:37	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/13/10 18:37	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 18:37	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/13/10 18:37	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/13/10 18:37	JKG	

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Description: 9209-EQBlank
Matrix: Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-18
Sampled: 05/06/10 16:30
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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] ^	**0.44**	J	ug/L	1	0.22	1.0	5	EPA 8260B	05/13/10 18:37	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*83 %*	*51-122*	*0E13008*	*EPA 8260B*	*05/13/10 18:37*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*0E13008*	*EPA 8260B*	*05/13/10 18:37*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*83 %*	*69-110*	*0E13008*	*EPA 8260B*	*05/13/10 18:37*	*JKG*	

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Description: 9209-EQBlank
Matrix: Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-18
Sampled: 05/06/10 16:30
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005104

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	05/13/10 12:47	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 10:35	JDH	
Barium [7440-39-3] ^	1.00	U	ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 10:35	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 10:35	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 10:35	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 10:35	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 10:35	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 10:35	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 10:35	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 10:35	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 12:47	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 10:35	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 12:47	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 10:35	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 10:35	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-TripBlank
Matrix: Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-19
Sampled: 05/06/10 12:00
Sampled By: ENCO

Received: 05/07/10 15:25
Work Order: C005104

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	05/13/10 19:07	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/13/10 19:07	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/13/10 19:07	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/13/10 19:07	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/13/10 19:07	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/13/10 19:07	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/13/10 19:07	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/13/10 19:07	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/13/10 19:07	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/13/10 19:07	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/13/10 19:07	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/13/10 19:07	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/13/10 19:07	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/13/10 19:07	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/13/10 19:07	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/13/10 19:07	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/13/10 19:07	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/13/10 19:07	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/13/10 19:07	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/13/10 19:07	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/13/10 19:07	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/13/10 19:07	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/13/10 19:07	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/13/10 19:07	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 19:07	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/13/10 19:07	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/13/10 19:07	JKG	

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Description: 9209-TripBlank
Matrix: Water
Project: N Wake Lined Landfill

Lab Sample ID: C005104-19
Sampled: 05/06/10 12:00
Sampled By: ENCO

Received: 05/07/10 15:25
Work Order: C005104

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	05/13/10 19:07	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*51-122*	*0E13008*	*EPA 8260B*	*05/13/10 19:07*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*0E13008*	*EPA 8260B*	*05/13/10 19:07*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*69-110*	*0E13008*	*EPA 8260B*	*05/13/10 19:07*	*JKG*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E11020 - EPA 5030B_MS

Blank (0E11020-BLK1) Prepared: 05/11/2010 13:30 Analyzed: 05/11/2010 15:28

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							
1,2,3-Trichloropropane	0.15	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							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	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							
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							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	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*		*93*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E11020 - EPA 5030B_MS

Blank (0E11020-BLK1) Continued Prepared: 05/11/2010 13:30 Analyzed: 05/11/2010 15:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*97*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*93*	*69-110*			

LCS (0E11020-BS1) Prepared: 05/11/2010 13:30 Analyzed: 05/11/2010 15:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		100	75-133			
Benzene	21		1.0	ug/L	20.0		104	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Toluene	22		1.0	ug/L	20.0		108	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	75-115			
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*69-110*			

Matrix Spike (0E11020-MS1) Prepared: 05/11/2010 13:30 Analyzed: 05/11/2010 16:25

Source: C005247-10

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	102	75-133			
Benzene	21		1.0	ug/L	20.0	0.050 U	103	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.069 U	96	83-117			
Toluene	21		1.0	ug/L	20.0	0.053 U	103	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.13 U	94	75-115			
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*93*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*69-110*			

Matrix Spike Dup (0E11020-MSD1) Prepared: 05/11/2010 13:30 Analyzed: 05/11/2010 16:53

Source: C005247-10

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	98	75-133	4	20	
Benzene	20		1.0	ug/L	20.0	0.050 U	101	81-134	1	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	99	83-117	3	16	
Toluene	21		1.0	ug/L	20.0	0.053 U	103	71-118	0.4	17	
Trichloroethene	19		1.0	ug/L	20.0	0.13 U	93	75-115	0.4	18	
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*95*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*69-110*			

Batch 0E13008 - EPA 5030B_MS

Blank (0E13008-BLK1) Prepared: 05/13/2010 08:20 Analyzed: 05/13/2010 10:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E13008 - EPA 5030B_MS

Blank (0E13008-BLK1) Continued Prepared: 05/13/2010 08:20 Analyzed: 05/13/2010 10:35

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							
1,2,3-Trichloropropane	0.15	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							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	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							
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							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	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	*40*			*ug/L*	*50.0*		*81*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E13008 - EPA 5030B_MS

Blank (0E13008-BLK1) Continued Prepared: 05/13/2010 08:20 Analyzed: 05/13/2010 10:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*84*	*68-117*			
Surrogate: Toluene-d8	*40*			*ug/L*	*50.0*		*81*	*69-110*			

LCS (0E13008-BS1) Prepared: 05/13/2010 08:20 Analyzed: 05/13/2010 11:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		108	75-133			
Benzene	23		1.0	ug/L	20.0		113	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Toluene	20		1.0	ug/L	20.0		98	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	75-115			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*85*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*69-110*			

Matrix Spike (0E13008-MS1) Prepared: 05/13/2010 08:20 Analyzed: 05/13/2010 11:35

Source: C005662-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.15 U	110	75-133			
Benzene	23		1.0	ug/L	20.0	0.050 U	115	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	102	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	100	75-115			
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*86*	*51-122*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*87*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*81*	*69-110*			

Matrix Spike Dup (0E13008-MSD1) Prepared: 05/13/2010 08:20 Analyzed: 05/13/2010 12:05

Source: C005662-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.15 U	106	75-133	3	20	
Benzene	22		1.0	ug/L	20.0	0.050 U	111	81-134	4	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.069 U	97	83-117	5	16	
Toluene	19		1.0	ug/L	20.0	0.053 U	96	71-118	4	17	
Trichloroethene	19		1.0	ug/L	20.0	0.13 U	97	75-115	3	18	
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*51-122*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*86*	*68-117*			
Surrogate: Toluene-d8	*40*			*ug/L*	*50.0*		*81*	*69-110*			

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

Batch 0E10017 - EPA 3005A

Blank (0E10017-BLK1) Prepared: 05/10/2010 10:28 Analyzed: 05/12/2010 10:33

QUALITY CONTROL

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

Batch 0E10017 - EPA 3005A

Blank (0E10017-BLK1) Continued Prepared: 05/10/2010 10:28 Analyzed: 05/12/2010 10:33

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 (0E10017-BS1) Prepared: 05/10/2010 10:28 Analyzed: 05/12/2010 10:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1040		10.0	ug/L	1000		104	80-120			
Barium	1030		10.0	ug/L	1000		103	80-120			
Beryllium	528		1.00	ug/L	500		106	80-120			
Cadmium	518		1.00	ug/L	500		104	80-120			
Chromium	1040		10.0	ug/L	1000		104	80-120			
Cobalt	1010		10.0	ug/L	1000		101	80-120			
Copper	527		10.0	ug/L	500		105	80-120			
Lead	1040		10.0	ug/L	1000		104	80-120			
Nickel	1030		10.0	ug/L	1000		103	80-120			
Silver	98.3		10.0	ug/L	100		98	80-120			
Vanadium	509		10.0	ug/L	500		102	80-120			
Zinc	1040		10.0	ug/L	1000		104	80-120			

Matrix Spike (0E10017-MS1) Prepared: 05/10/2010 10:28 Analyzed: 05/12/2010 10:38

Source: C005104-18

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	1040		10.0	ug/L	1000	1.00 U	104	75-125			
Beryllium	539		1.00	ug/L	500	0.100 U	108	75-125			
Cadmium	525		1.00	ug/L	500	0.360 U	105	75-125			
Chromium	1060		10.0	ug/L	1000	1.00 U	106	75-125			
Cobalt	1030		10.0	ug/L	1000	1.10 U	103	75-125			
Copper	535		10.0	ug/L	500	1.60 U	107	75-125			
Lead	1060		10.0	ug/L	1000	1.90 U	106	75-125			
Nickel	1040		10.0	ug/L	1000	1.80 U	104	75-125			
Silver	99.0		10.0	ug/L	100	1.90 U	99	75-125			
Vanadium	517		10.0	ug/L	500	1.40 U	103	75-125			
Zinc	1050		10.0	ug/L	1000	3.80 U	105	75-125			

Matrix Spike Dup (0E10017-MSD1) Prepared: 05/10/2010 10:28 Analyzed: 05/12/2010 10:40

QUALITY CONTROL

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

Batch 0E10017 - EPA 3005A

Matrix Spike Dup (0E10017-MSD1) Continued Prepared: 05/10/2010 10:28 Analyzed: 05/12/2010 10:40

Source: C005104-18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1050		10.0	ug/L	1000	2.80 U	105	75-125	1	20	
Barium	1050		10.0	ug/L	1000	1.00 U	105	75-125	0.2	20	
Beryllium	534		1.00	ug/L	500	0.100 U	107	75-125	0.8	20	
Cadmium	527		1.00	ug/L	500	0.360 U	105	75-125	0.4	20	
Chromium	1060		10.0	ug/L	1000	1.00 U	106	75-125	0.2	20	
Cobalt	1030		10.0	ug/L	1000	1.10 U	103	75-125	0.05	20	
Copper	538		10.0	ug/L	500	1.60 U	108	75-125	0.6	20	
Lead	1050		10.0	ug/L	1000	1.90 U	105	75-125	1	20	
Nickel	1040		10.0	ug/L	1000	1.80 U	104	75-125	0.2	20	
Silver	99.5		10.0	ug/L	100	1.90 U	100	75-125	0.6	20	
Vanadium	520		10.0	ug/L	500	1.40 U	104	75-125	0.8	20	
Zinc	1050		10.0	ug/L	1000	3.80 U	105	75-125	0.09	20	

Post Spike (0E10017-PS1) Prepared: 05/10/2010 10:28 Analyzed: 05/12/2010 10:43

Source: C005104-18

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	0.00160	109	80-120			
Barium	1.07		0.0100	mg/L	1.00	0.000121	107	80-120			
Beryllium	0.551		0.00100	mg/L	0.500	1.15E-5	110	80-120			
Cadmium	0.540		0.00100	mg/L	0.500	0.000170	108	80-120			
Chromium	1.09		0.0100	mg/L	1.00	-0.000274	109	80-120			
Cobalt	1.06		0.0100	mg/L	1.00	-0.000212	106	80-120			
Copper	0.553		0.0100	mg/L	0.500	-0.000325	111	80-120			
Lead	1.08		0.0100	mg/L	1.00	-0.000237	108	80-120			
Nickel	1.07		0.0100	mg/L	1.00	-0.000402	107	80-120			
Silver	0.0965		0.0100	mg/L	0.100	0.000309	96	80-120			
Vanadium	0.532		0.0100	mg/L	0.500	0.000154	106	80-120			
Zinc	1.08		0.0100	mg/L	1.00	0.000405	108	80-120			

Batch 0E10018 - EPA 3005A

Blank (0E10018-BLK1) Prepared: 05/10/2010 10:30 Analyzed: 05/13/2010 11:01

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 (0E10018-BS1) Prepared: 05/10/2010 10:30 Analyzed: 05/13/2010 11:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.2		2.00	ug/L	25.0		105	80-120			
Selenium	26.9		1.00	ug/L	25.0		108	80-120			
Thallium	26.8		1.00	ug/L	25.0		107	80-120			

QUALITY CONTROL

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

Batch 0E10018 - EPA 3005A

Matrix Spike (0E10018-MS1) Prepared: 05/10/2010 10:30 Analyzed: 05/13/2010 11:20

Source: C005104-17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.8		2.00	ug/L	25.0	1.88	104	75-125			
Selenium	26.8		1.00	ug/L	25.0	0.830 U	107	75-125			
Thallium	26.7		1.00	ug/L	25.0	0.110 U	107	75-125			

Matrix Spike Dup (0E10018-MSD1) Prepared: 05/10/2010 10:30 Analyzed: 05/13/2010 11:23

Source: C005104-17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.7		2.00	ug/L	25.0	1.88	103	75-125	0.4	20	
Selenium	27.0		1.00	ug/L	25.0	0.830 U	108	75-125	0.6	20	
Thallium	26.3		1.00	ug/L	25.0	0.110 U	105	75-125	2	20	

Post Spike (0E10018-PS1) Prepared: 05/10/2010 10:30 Analyzed: 05/13/2010 11:27

Source: C005104-17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	29.0		2.00	ug/L	25.0	1.88	109	80-120			
Selenium	27.4		1.00	ug/L	25.0	-0.142	110	80-120			
Thallium	27.2		1.00	ug/L	25.0	-0.0100	109	80-120			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: N Wake Lined 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: 8260B Appendix 1; Ag,As,Ba,Be,Cd,Ca,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C005104

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Ca,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn								Sample Comments
	9209-MW12	5-7-10	1305	G	GW	4	X	X								Provide edd in
	9209-MW12d	5-6-10	1620	G	GW	4	X	X								SWS Format
	9209-MW13	5-7-10	1400	G	GW	4	X	X								- Report results according
	9209-MW14	5-7-10	1410	G	GW	4	X	X								to SCDNS reporting guidelines
	9209-MW15	5-7-10	1135	G	GW	4	X	X								- Report "J" values
	9209-MW15d	5-6-10	1500	G	GW	4	X	X								
	9209-MW16	5-7-10	1000	G	GW	4	X	X								
	9209-MW17	5-7-10	1100	G	GW	4	X	X								
	9209-MW17d	5-6-10	1245	G	GW	4	X	X								
	9209-MW18	5-7-10	1030	G	GW	4	X	X								
	9209-MW19	5-7-10	1305	G	GW	4	X	X								
	9209-MW20	5-7-10	1250	G	GW	4	X	X								
						48	<-- Total # of Containers									

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CS	5/4/10		5-7-10 1525		5/7/10 1525
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-307 2.1°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

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

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C005104

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn									Sample Comments
	9209-MW21	5-7-10	1310	G	GW	4	X	X									provide edd in SWS
	9209-MW25	5-6-10	1410	G	GW	4	X	X									format
	9209-MW25d	5-7-10	1200	G	GW	4	X	X									- report "J" values
	9209-MW26	5-7-10	1230	G	GW	4	X	X									- report results according
	9209-DUP	5-6-10	1200	G	GW	4	X	X									to SWS guidelines
	9209-EQBlank	5-6-10	1630	G	WA	4	X	X									
	9209-TripBlank	—	—	—	WA	2	X										
						26	<-- Total # of Containers										

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CS	5/4/10	[signature]	5-7-10 1525	[signature]	5/7/10 1525
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-307 2.1°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, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, May 20, 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 Surface Water
ENCO Workorder: C005105

Dear Aaron Weispfenning,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, May 7, 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-SW4 **Lab ID: C005105-01** **Sampled: 05/07/10 13:50** **Received: 05/07/10 15:25**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10 10:25	5/12/2010 13:05
EPA 6020A	11/03/10	05/10/10 10:30	5/13/2010 12:51
EPA 8260B	05/21/10	05/12/10 11:18	5/12/2010 19:02

Client ID: 9209-SW5 **Lab ID: C005105-02** **Sampled: 05/07/10 11:20** **Received: 05/07/10 15:25**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10 10:25	5/12/2010 13:08
EPA 6020A	11/03/10	05/10/10 10:30	5/13/2010 12:54
EPA 8260B	05/21/10	05/13/10 08:20	5/13/2010 13:35

Client ID: 9209-SW6 **Lab ID: C005105-03** **Sampled: 05/07/10 12:40** **Received: 05/07/10 15:25**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/03/10	05/10/10 10:25	5/12/2010 13:17
EPA 6020A	11/03/10	05/10/10 10:32	5/12/2010 12:37
EPA 8260B	05/21/10	05/13/10 08:20	5/13/2010 14:05

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 9209-SW4 **Lab ID: C005105-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	32.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Vanadium - Total	2.30	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 9209-SW5 **Lab ID: C005105-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	36.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Vanadium - Total	2.75	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	13.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-SW6 **Lab ID: C005105-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	33.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Vanadium - Total	1.84	J	1	1.40	10.0	25	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 9209-SW4 **Lab Sample ID:** C005105-01 **Received:** 05/07/10 15:25

Matrix: Surface Water **Sampled:** 05/07/10 13:50 **Work Order:** C005105

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

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Description: 9209-SW4
Matrix: Surface Water
Project: N Wake Surface Water

Lab Sample ID: C005105-01
Sampled: 05/07/10 13:50
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005105

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/12/10 19:02	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/12/10 19:02	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/12/10 19:02	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/12/10 19:02	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*81 %*	*51-122*	*0E12020*	*EPA 8260B*	*05/12/10 19:02*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*0E12020*	*EPA 8260B*	*05/12/10 19:02*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*83 %*	*69-110*	*0E12020*	*EPA 8260B*	*05/12/10 19:02*	*JKG*	

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Description: 9209-SW4 | **Lab Sample ID:** C005105-01 | **Received:** 05/07/10 15:25

Matrix: Surface Water | **Sampled:** 05/07/10 13:50 | **Work Order:** C005105

Project: N Wake Surface Water | **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	05/13/10 12:51	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 13:05	JDH	
Barium [7440-39-3] ^	**32.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 13:05	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 13:05	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 13:05	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 13:05	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 13:05	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 13:05	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 13:05	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 13:05	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 12:51	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 13:05	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 12:51	VLO	
Vanadium [7440-62-2] ^	**2.30**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 13:05	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 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-SW5 | **Lab Sample ID:** C005105-02 | **Received:** 05/07/10 15:25

Matrix: Surface Water | **Sampled:** 05/07/10 11:20 | **Work Order:** C005105

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

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Description: 9209-SW5
Matrix: Surface Water
Project: N Wake Surface Water

Lab Sample ID: C005105-02
Sampled: 05/07/10 11:20
Sampled By: Aaron Weispfenning

Received: 05/07/10 15:25
Work Order: C005105

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	05/13/10 13:35	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*83 %*	*51-122*	*0E13008*	*EPA 8260B*	*05/13/10 13:35*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*85 %*	*68-117*	*0E13008*	*EPA 8260B*	*05/13/10 13:35*	*JKG*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*69-110*	*0E13008*	*EPA 8260B*	*05/13/10 13:35*	*JKG*	

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Description: 9209-SW5 | **Lab Sample ID:** C005105-02 | **Received:** 05/07/10 15:25

Matrix: Surface Water | **Sampled:** 05/07/10 11:20 | **Work Order:** C005105

Project: N Wake Surface Water | **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	05/13/10 12:54	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 13:08	JDH	
Barium [7440-39-3] ^	**36.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 13:08	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 13:08	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 13:08	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 13:08	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 13:08	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 13:08	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 13:08	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 13:08	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/13/10 12:54	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 13:08	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/13/10 12:54	VLO	
Vanadium [7440-62-2] ^	**2.75**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 13:08	JDH	
Zinc [7440-66-6] ^	**13.2**		ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 13:08	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-SW6 | **Lab Sample ID:** C005105-03 | **Received:** 05/07/10 15:25

Matrix: Surface Water | **Sampled:** 05/07/10 12:40 | **Work Order:** C005105

Project: N Wake Surface Water | **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	05/13/10 14:05	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	05/13/10 14:05	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	05/13/10 14:05	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/13/10 14:05	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/13/10 14:05	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	05/13/10 14:05	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	05/13/10 14:05	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	05/13/10 14:05	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/13/10 14:05	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/13/10 14:05	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	05/13/10 14:05	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	05/13/10 14:05	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	05/13/10 14:05	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	05/13/10 14:05	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	05/13/10 14:05	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	05/13/10 14:05	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	05/13/10 14:05	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	05/13/10 14:05	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	05/13/10 14:05	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	05/13/10 14:05	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	05/13/10 14:05	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	05/13/10 14:05	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	05/13/10 14:05	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	05/13/10 14:05	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/13/10 14:05	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	05/13/10 14:05	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	05/13/10 14:05	JKG	

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Description:	9209-SW6	**Lab Sample ID:**	C005105-03	**Received:**	05/07/10 15:25
Matrix:	Surface Water	**Sampled:**	05/07/10 12:40	**Work Order:**	C005105
Project:	N Wake Surface Water	**Sampled By:**	Aaron Weispfenning		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	05/13/10 14:05	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*83 %*	*51-122*	*0E13008*	*EPA 8260B*	*05/13/10 14:05*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*85 %*	*68-117*	*0E13008*	*EPA 8260B*	*05/13/10 14:05*	*JKG*	
Toluene-d8	*41*	*1*	*50.0*	*83 %*	*69-110*	*0E13008*	*EPA 8260B*	*05/13/10 14:05*	*JKG*	

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Description: 9209-SW6 | **Lab Sample ID:** C005105-03 | **Received:** 05/07/10 15:25

Matrix: Surface Water | **Sampled:** 05/07/10 12:40 | **Work Order:** C005105

Project: N Wake Surface Water | **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	05/12/10 12:37	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	05/12/10 13:17	JDH	
Barium [7440-39-3] ^	**33.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/12/10 13:17	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/12/10 13:17	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/12/10 13:17	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	05/12/10 13:17	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/12/10 13:17	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/12/10 13:17	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 13:17	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/12/10 13:17	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	05/12/10 12:37	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/12/10 13:17	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/12/10 12:37	VLO	
Vanadium [7440-62-2] ^	**1.84**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/12/10 13:17	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	05/12/10 13:17	JDH	

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

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E12020 - EPA 5030B_MS

Blank (0E12020-BLK1) Prepared: 05/12/2010 11:18 Analyzed: 05/12/2010 15:33

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							
1,2,3-Trichloropropane	0.15	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							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	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							
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							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	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	*40*			*ug/L*	*50.0*		*81*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E12020 - EPA 5030B_MS

Blank (0E12020-BLK1) Continued Prepared: 05/12/2010 11:18 Analyzed: 05/12/2010 15:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*84*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*69-110*			

LCS (0E12020-BS1) Prepared: 05/12/2010 11:18 Analyzed: 05/12/2010 16:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		111	75-133			
Benzene	23		1.0	ug/L	20.0		117	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		102	83-117			
Toluene	20		1.0	ug/L	20.0		99	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	75-115			
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*88*	*51-122*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*86*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

Matrix Spike (0E12020-MS1) Prepared: 05/12/2010 11:18 Analyzed: 05/12/2010 16:33

Source: C005662-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.15 U	108	75-133			
Benzene	23		1.0	ug/L	20.0	0.050 U	114	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	100	75-115			
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*85*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*84*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*69-110*			

Matrix Spike Dup (0E12020-MSD1) Prepared: 05/12/2010 11:18 Analyzed: 05/12/2010 17:03

Source: C005662-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.15 U	105	75-133	4	20	
Benzene	22		1.0	ug/L	20.0	0.050 U	111	81-134	2	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	99	83-117	0.9	16	
Toluene	19		1.0	ug/L	20.0	0.053 U	96	71-118	5	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	98	75-115	2	18	
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*51-122*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*82*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*69-110*			

Batch 0E13008 - EPA 5030B_MS

Blank (0E13008-BLK1) Prepared: 05/13/2010 08:20 Analyzed: 05/13/2010 10:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E13008 - EPA 5030B_MS

Blank (0E13008-BLK1) Continued Prepared: 05/13/2010 08:20 Analyzed: 05/13/2010 10:35

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							
1,2,3-Trichloropropane	0.15	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							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	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							
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							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	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	*40*			*ug/L*	*50.0*		*81*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0E13008 - EPA 5030B_MS

Blank (0E13008-BLK1) Continued Prepared: 05/13/2010 08:20 Analyzed: 05/13/2010 10:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*84*	*68-117*			
Surrogate: Toluene-d8	*40*			*ug/L*	*50.0*		*81*	*69-110*			

LCS (0E13008-BS1) Prepared: 05/13/2010 08:20 Analyzed: 05/13/2010 11:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		108	75-133			
Benzene	23		1.0	ug/L	20.0		113	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Toluene	20		1.0	ug/L	20.0		98	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	75-115			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*85*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*69-110*			

Matrix Spike (0E13008-MS1) Prepared: 05/13/2010 08:20 Analyzed: 05/13/2010 11:35

Source: C005662-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.15 U	110	75-133			
Benzene	23		1.0	ug/L	20.0	0.050 U	115	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	102	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	100	75-115			
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*86*	*51-122*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*87*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*81*	*69-110*			

Matrix Spike Dup (0E13008-MSD1) Prepared: 05/13/2010 08:20 Analyzed: 05/13/2010 12:05

Source: C005662-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.15 U	106	75-133	3	20	
Benzene	22		1.0	ug/L	20.0	0.050 U	111	81-134	4	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.069 U	97	83-117	5	16	
Toluene	19		1.0	ug/L	20.0	0.053 U	96	71-118	4	17	
Trichloroethene	19		1.0	ug/L	20.0	0.13 U	97	75-115	3	18	
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*51-122*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*86*	*68-117*			
Surrogate: Toluene-d8	*40*			*ug/L*	*50.0*		*81*	*69-110*			

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

Batch 0E10016 - EPA 3005A

Blank (0E10016-BLK1) Prepared: 05/10/2010 10:25 Analyzed: 05/12/2010 11:47

QUALITY CONTROL

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

Batch 0E10016 - EPA 3005A

Blank (0E10016-BLK1) Continued Prepared: 05/10/2010 10:25 Analyzed: 05/12/2010 11:47

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 (0E10016-BS1) Prepared: 05/10/2010 10:25 Analyzed: 05/12/2010 11:51

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	533		1.00	ug/L	500		107	80-120			
Cadmium	526		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	534		10.0	ug/L	500		107	80-120			
Lead	1050		10.0	ug/L	1000		105	80-120			
Nickel	1040		10.0	ug/L	1000		104	80-120			
Silver	100		10.0	ug/L	100		100	80-120			
Vanadium	515		10.0	ug/L	500		103	80-120			
Zinc	1050		10.0	ug/L	1000		105	80-120			

Matrix Spike (0E10016-MS1) Prepared: 05/10/2010 10:25 Analyzed: 05/12/2010 12:02

Source: C004829-03

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	1470		10.0	ug/L	1000	415	106	75-125			
Beryllium	532		1.00	ug/L	500	0.897	106	75-125			
Cadmium	517		1.00	ug/L	500	0.408	103	75-125			
Chromium	1040		10.0	ug/L	1000	1.00 U	104	75-125			
Cobalt	1090		10.0	ug/L	1000	73.0	102	75-125			
Copper	535		10.0	ug/L	500	4.41	106	75-125			
Lead	1040		10.0	ug/L	1000	1.90 U	104	75-125			
Nickel	1040		10.0	ug/L	1000	13.5	102	75-125			
Silver	98.9		10.0	ug/L	100	1.90 U	99	75-125			
Vanadium	512		10.0	ug/L	500	2.11	102	75-125			
Zinc	1090		10.0	ug/L	1000	59.7	103	75-125			

Matrix Spike Dup (0E10016-MSD1) Prepared: 05/10/2010 10:25 Analyzed: 05/12/2010 12:05

QUALITY CONTROL

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

Batch 0E10016 - EPA 3005A

Matrix Spike Dup (0E10016-MSD1) Continued Prepared: 05/10/2010 10:25 Analyzed: 05/12/2010 12:05

Source: C004829-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1030		10.0	ug/L	1000	2.80 U	103	75-125	1	20	
Barium	1440		10.0	ug/L	1000	415	103	75-125	2	20	
Beryllium	521		1.00	ug/L	500	0.897	104	75-125	2	20	
Cadmium	507		1.00	ug/L	500	0.408	101	75-125	2	20	
Chromium	1010		10.0	ug/L	1000	1.00 U	101	75-125	2	20	
Cobalt	1070		10.0	ug/L	1000	73.0	99	75-125	2	20	
Copper	524		10.0	ug/L	500	4.41	104	75-125	2	20	
Lead	1020		10.0	ug/L	1000	1.90 U	102	75-125	2	20	
Nickel	1010		10.0	ug/L	1000	13.5	100	75-125	2	20	
Silver	96.4		10.0	ug/L	100	1.90 U	96	75-125	3	20	
Vanadium	500		10.0	ug/L	500	2.11	100	75-125	2	20	
Zinc	1070		10.0	ug/L	1000	59.7	101	75-125	2	20	

Post Spike (0E10016-PS1) Prepared: 05/10/2010 10:25 Analyzed: 05/12/2010 12:14

Source: C004829-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.07		0.0100	mg/L	1.00	-4.12E-5	107	80-120			
Barium	1.50		0.0100	mg/L	1.00	0.415	108	80-120			
Beryllium	0.544		0.00100	mg/L	0.500	0.000897	109	80-120			
Cadmium	0.529		0.00100	mg/L	0.500	0.000408	106	80-120			
Chromium	1.07		0.0100	mg/L	1.00	-0.000540	107	80-120			
Cobalt	1.11		0.0100	mg/L	1.00	0.0730	104	80-120			
Copper	0.549		0.0100	mg/L	0.500	0.00441	109	80-120			
Lead	1.06		0.0100	mg/L	1.00	0.000777	106	80-120			
Nickel	1.06		0.0100	mg/L	1.00	0.0135	105	80-120			
Silver	0.0946		0.0100	mg/L	0.100	0.000614	94	80-120			
Vanadium	0.524		0.0100	mg/L	0.500	0.00211	104	80-120			
Zinc	1.12		0.0100	mg/L	1.00	0.0597	106	80-120			

Batch 0E10018 - EPA 3005A

Blank (0E10018-BLK1) Prepared: 05/10/2010 10:30 Analyzed: 05/13/2010 11:01

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 (0E10018-BS1) Prepared: 05/10/2010 10:30 Analyzed: 05/13/2010 11:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.2		2.00	ug/L	25.0		105	80-120			
Selenium	26.9		1.00	ug/L	25.0		108	80-120			
Thallium	26.8		1.00	ug/L	25.0		107	80-120			

QUALITY CONTROL

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

Batch 0E10018 - EPA 3005A

Matrix Spike (0E10018-MS1) Prepared: 05/10/2010 10:30 Analyzed: 05/13/2010 11:20

Source: C005104-17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.8		2.00	ug/L	25.0	1.88	104	75-125			
Selenium	26.8		1.00	ug/L	25.0	0.830 U	107	75-125			
Thallium	26.7		1.00	ug/L	25.0	0.110 U	107	75-125			

Matrix Spike Dup (0E10018-MSD1) Prepared: 05/10/2010 10:30 Analyzed: 05/13/2010 11:23

Source: C005104-17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.7		2.00	ug/L	25.0	1.88	103	75-125	0.4	20	
Selenium	27.0		1.00	ug/L	25.0	0.830 U	108	75-125	0.6	20	
Thallium	26.3		1.00	ug/L	25.0	0.110 U	105	75-125	2	20	

Post Spike (0E10018-PS1) Prepared: 05/10/2010 10:30 Analyzed: 05/13/2010 11:27

Source: C005104-17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	29.0		2.00	ug/L	25.0	1.88	109	80-120			
Selenium	27.4		1.00	ug/L	25.0	-0.142	110	80-120			
Thallium	27.2		1.00	ug/L	25.0	-0.0100	109	80-120			

Batch 0E10019 - EPA 3005A

Blank (0E10019-BLK1) Prepared: 05/10/2010 10:32 Analyzed: 05/12/2010 11:25

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 (0E10019-BS1) Prepared: 05/10/2010 10:32 Analyzed: 05/12/2010 11:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.9		2.00	ug/L	25.0		103	80-120			
Selenium	24.7		1.00	ug/L	25.0		99	80-120			
Thallium	25.8		1.00	ug/L	25.0		103	80-120			

Matrix Spike (0E10019-MS1) Prepared: 05/10/2010 10:32 Analyzed: 05/12/2010 11:36

Source: C004829-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.6		2.00	ug/L	25.0	0.220 U	106	75-125			
Selenium	27.5		1.00	ug/L	25.0	2.13	101	75-125			
Thallium	25.7		1.00	ug/L	25.0	0.110 U	103	75-125			

Matrix Spike Dup (0E10019-MSD1) Prepared: 05/10/2010 10:32 Analyzed: 05/12/2010 11:39

QUALITY CONTROL

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

Batch 0E10019 - EPA 3005A

Matrix Spike Dup (0E10019-MSD1) Continued Prepared: 05/10/2010 10:32 Analyzed: 05/12/2010 11:39

Source: C004829-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.2		2.00	ug/L	25.0	0.220 U	105	75-125	1	20	
Selenium	26.0		1.00	ug/L	25.0	2.13	95	75-125	6	20	
Thallium	25.4		1.00	ug/L	25.0	0.110 U	101	75-125	1	20	

Post Spike (0E10019-PS1) Prepared: 05/10/2010 10:32 Analyzed: 05/12/2010 11:43

Source: C004829-03

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	0.0680	108	80-120			
Selenium	28.0		1.00	ug/L	25.0	2.13	104	80-120			
Thallium	26.2		1.00	ug/L	25.0	0.0340	105	80-120			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

4810 Executive Park Court, Suite 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

Page 1 of 1

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: N Wake Surface Water
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: 8260B Appendix 1; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C005105

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn									Sample Comments
	9209-SW4	5-7-10	1350	G	SW	4	X	X									"Provide cdd is
	9209-SW5	5-7-10	1120	G	SW	4	X	X									SWS format
	9209-SW6	5-7-10	1240	G	SW	4	X	X									"report "J" values
																	"report results according
																	to SWS guidelines
						12	<-- Total # of Containers										

Sample Kit Prepared By: JT	Date/Time: 5/4/10 1200	Relinquished By:	Date/Time: 5-7-10 1525	Received By:	Date/Time: 5/7/10 1525
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: Blue 0.2°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