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NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Golder Associates NC, Inc. (for Republic Services of NC, LLC)

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

Name: Rachel P. Kirkman, P.G. Phone: 336-852-4903

E-mail: rkirkman@golder.com

Received SEP 2007 Waste Management

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
East Carolina Environmental	1922 Republican Road Aulander, NC 27805	08-03	.1600	July 9-10, 2007

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 or explosive methane gas limits 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.

Rachel P. Kirkman, P.G.	Senior Project Geologist	336-852-4903
Facility Representative Name (Print)	Title	(Area Code) Telephone Number

Signature: Rachel P. Kirkman Date: 8-30-07

Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1811 GEOLOGIST RACHEL P. KIRKMAN 8-30-07

Revised 10/2006

Golder Associates NC, Inc.

4900 Koger Boulevard, Suite 140
Greensboro, NC 27407
Telephone (336) 852-4903
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August 30, 2007

Project No. 053-6620007.100

Department of Environment and Natural Resources
Division of Waste Management
Solid Waste Section
401 Oberlin Road, Suite 150
Raleigh, North Carolina 27605
919-508-8520

Attention: Mr. Ervin Lane
Hydrogeologist

Re: East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina
Groundwater Monitoring Report, Second Semiannual 2007 Sampling Event

Dear Ervin:

On behalf of East Carolina Environmental, a subsidiary of Republic Services of NC, LLC (Republic), Golder Associates NC, Inc. (Golder) is submitting this *Groundwater Monitoring Report,* which documents the results of the July 9-10, 2007, compliance monitoring event at the above-referenced facility.

Four NC Appendix I inorganic constituents were detected above their respective Solid Waste Section Limits (SWSLs) in the compliance monitoring wells during the July 2007 sampling event. Barium was detected in GW-2, GW-7, GW-8 and GW-15; beryllium was detected in GW-7; cobalt was detected in GW-2 and GW-7; and zinc was detected in GW-7. The reported concentrations do not exceed the calculated facility background concentrations for these constituents, and are consistent with historical results for these wells. No concentrations of any detected constituents exceed the NC Groundwater 2L Standards (2L Standards). Cobalt was detected at quantifiable concentrations in background well GW-2 and downgradient well GW-7, and at estimated concentrations in downgradient wells GW-8, GW-14 and GW-15 above the Solid Waste Section Groundwater Protection Standard. These detections are attributed to naturally occurring conditions, since concentrations are representative of background and consistent with historical data. No NC Appendix I organic constituents were detected above the SWSLs during this event.

No surface water samples were collected during the July 2007 event as no flowing water was observed at the sampling locations. Four inorganic constituents were detected in the sample from the site water supply well at concentrations below applicable groundwater standards during this event. Constituent concentrations reported for the leachate sample collected during the July 2007 sampling event are typical for this facility.

Based on these results, Republic will continue monitoring the uppermost aquifer beneath this facility in accordance with the requirements of the Detection Monitoring Program as outlined in Title 15A NCAC 13B.1633. If you have any questions, please contact the undersigned at 336-852-4903.

Sincerely,
GOLDER ASSOCIATES NC, INC.

Benjamin S. Draper
Geologist

Rachel P. Kirkman, P.G.
Senior Project Geologist

Enclosure

c: Ray Hoffman, P.E., Area Engineer, Republic Services of North Carolina, LLC, 1220 Commerce Street, SW, Hickory, North Carolina, 28613. HoffmanRJ@repsrvnc.com. 828-464-2414.
Bill Cooksey, General Manager, Republic Services, 1922 Republican Road, Aulander, NC, 27805. 252-348-3322.

GROUNDWATER MONITORING REPORT
SECOND SEMIANNUAL 2007 SAMPLING EVENT

EAST CAROLINA REGIONAL LANDFILL, PERMIT NO. 08-03
BERTIE COUNTY, NORTH CAROLINA

AUGUST 2007

PREPARED FOR:

REPUBLIC SERVICES OF NORTH CAROLINA, LLC
1922 REPUBLICAN ROAD
AULANDER, NORTH CAROLINA 27805
252-348-3322

PREPARED BY:

GOLDER ASSOCIATES NC, INC.
4900 KOGER BOULEVARD, SUITE 140
GREENSBORO, NC 27407

PROJECT NO. 053-6620007.100

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Drawing 1 Yorktown Formation Groundwater Contour Map, July 9-10, 2007

APPENDICES

Appendix I Groundwater, Surface Water, and Leachate Sampling Logs
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1.0 INTRODUCTION

This report summarizes the monitoring results from the July 9-10, 2007, groundwater, surface water, supply well and leachate sampling and analysis event at the East Carolina Regional Landfill in Bertie County, North Carolina in accordance with Title 15A of the North Carolina Administrative Code (NCAC) Subchapter 13B.1632. The East Carolina Regional Landfill, a municipal solid waste landfill, is owned and operated by Republic Services of North Carolina, LLC under Permit No. 08-03 issued by the North Carolina Department of Environment and Natural Resources (DENR).

1.1 Site Description and Background

The East Carolina Regional Landfill is an active Subtitle D municipal solid waste landfill that began operating in 1993. As of August 2007, cells 3 through 11 have been constructed. The location of the facility is shown on the inlay on Drawing 1. As presented, the East Carolina Regional Landfill is located approximately 7.5 miles northwest of Windsor, North Carolina at the intersection of State Routes 1221 and 1225. The facility is bounded to the north and east by undeveloped property and the Connaritsa Swamp, to the west by State Route 1225 and undeveloped and agricultural property, and to the south by State Route 1221, wooded property and undeveloped bottomlands associated with the easterly flowing Cashie River.

Topographic elevations at the facility range from approximately 30 to 70 feet above mean sea level. Along the northern and eastern portions of the facility, surface drainage from the facility and surrounding areas is routed by drainage channels and stormwater control structures to tributaries of the southerly flowing Connaritsa Swamp, a tributary system of the Cashie River. Along the western and southern portions of the facility, surface drainage from the facility and surrounding areas is routed by drainage channels and stormwater control structures to tributaries of the southeasterly flowing Cashie River. The Cashie River discharges to the greater Roanoke River south of the Town of Windsor.

1.2 Compliance Monitoring History

Groundwater monitoring at the facility was initiated in January 1995 under the Detection Monitoring Program for municipal solid waste landfills. The facility's monitoring network has historically consisted of 14 monitoring wells (GW-1 through GW-14), which monitor the uppermost Yorktown Formation (GW-2, GW-3, GW-5, GW-7 through GW-11, GW-13 and GW-14), and the lower Black Creek Formation (GW-1, GW-4, GW-6, and GW-12). Monitoring wells GW-1 and GW-2 are located upgradient of the landfill, and the remaining wells are located sidegradient or downgradient of the landfill.

In accordance with the facility's permit, the current monitoring network is composed of GW-2, GW-7, GW-8, GW-9, GW-10, GW-11, GW-13, GW-14, GW-15, and GW-16 (Yorktown Formation) with the remaining monitoring wells used for static water level observation wells. The fourth background sampling event was conducted for monitoring wells GW-15 and GW-16 during the January 2007 event. Per the June 2005 revision to the Water Monitoring Procedures (prepared by Bunnell-Lammons Engineering, Inc.), the groundwater wells screened in the Black Creek Formation are no longer sampled. Based on the results of the laboratory and statistical analyses, Republic

Services of North Carolina, LLC has continued to maintain a Detection Monitoring Program at this facility.

In addition to the routine groundwater monitoring points, the facility's monitoring network includes one upgradient surface water monitoring point, SW-1, and three downgradient surface water sampling points, SW-2, SW-3, and SW-4, which are sampled in conjunction with the groundwater monitoring wells.

1.3 Hydrogeologic Setting

Geologically, the facility is located within the Carolina Coastal Plain Physiographic Province of North Carolina (NCGS, 1985). The Coastal Plain Province is generally described as being composed of easterly dipping strata that thicken towards the east. Based on hydrogeologic characteristics, these strata are generally classified as aquifer systems separated by aquitard units. The strata underlying the facility include the Tertiary Yorktown Formation and the Cretaceous Black Creek Formation, both of which are classified as aquifers. The Yorktown Formation is unconfined at this location, and the lower Black Creek Formation, which is separated from the overlying Yorktown Formation by a low permeability unit, is confined.

The uppermost groundwater beneath the facility is present in the shallow, unconfined Yorktown Aquifer. Depending on topographic elevation, the depth to water in the Yorktown Formation ranges from 5 feet below grade along the southwestern perimeter of the facility to 25 feet below grade near the central and northeastern portion of the facility. In the lower Black Creek Formation, the depth to water ranges from 10 to 20 feet below grade in the monitoring wells screened in this unit. Historical static water level data are presented on Tables 1 and 2.

As presented on Table 1, the hydraulic head level in the uppermost Yorktown aquifer beneath the facility is fairly consistent, with temporal variation from the long-term average limited to approximately 5 feet (plus or minus) in the upgradient well and somewhat less in the downgradient wells. Similarly, as presented in Table 2, the fluctuation in the Black Creek aquifer is limited to approximately 3 feet (plus or minus). As expected, the range in fluctuation appears to be greater in the upgradient wells, as these wells are more centrally located to the regional groundwater recharge area. The range in fluctuation in the downgradient compliance wells, which are generally located nearer groundwater discharge areas, is less, likely due to the stabilizing affect of hydraulic discharge boundaries.

Static water level measurements obtained on July 9-10, 2007, were used to prepare the groundwater contours presented on Drawing 1. In the upper Yorktown Formation, groundwater flow across most of the site is toward the south. An apparent groundwater divide is located near the northern cell boundary, and groundwater flow north of the landfill waste boundary is toward the north. This is consistent with previously submitted interpretations for this facility. Previous maps of the Black Creek Formation show an apparent flow direction towards the southeast.

Based on the July 9-10, 2007, groundwater contour map for the Yorktown Formation, the hydraulic gradient in the uppermost aquifer underlying the site was measured along the conceptual flow paths shown on Drawing 1. The average hydraulic gradient for the groundwater flowing to the south was calculated to be approximately 0.0032. The hydraulic gradient for groundwater flowing to the north

was calculated to be 0.0034 (Table 3). The permeability of the aquifer portion of the Yorktown Formation is estimated to average 3.3E-04 centimeters per second (cm/sec; BLE, 2004). The effective porosity of the shallow aquifer is estimated at 0.27 (BLE, 2004).

Using the above values, the estimated rate of groundwater flow for the uppermost aquifer beneath the facility was calculated using the following modified Darcy equation:

$$V_{gw} = Ki/n_e$$

where V_{gw} = average linear velocity (feet/year), K = hydraulic conductivity (feet/year), i = horizontal hydraulic gradient, and n_e = effective porosity.

The average estimated linear groundwater flow velocity under the waste management unit is approximately 4.11 feet/year to the south, which is generally consistent with previous estimates (Table 3).

2.0 FIELD PROGRAM, MONITORING RESULTS, AND DISCUSSION

Field activities conducted as part of the July 2007 sampling event are discussed in the following sections.

2.1 Visual Inspection Program

In order to ensure that a potential release is detected at the earliest possible time, the visual inspection program is used at the East Carolina Regional Landfill. This program includes physical indicators such as potential water table mounding beneath the waste management unit, physical examination of any stresses in biological communities, visible signs of leachate migration (i.e., leachate seeps), unexplained changes in soil characteristics, and any other change to the environment due to the waste management unit. During the July 2007 compliance monitoring event, no physical indicators were observed in the vicinity of the waste management areas.

2.2 Well Network and Groundwater Elevation Measurements

The network of groundwater monitoring wells at the East Carolina Regional Landfill consists of GW-2, GW-7, GW-8, GW-9, GW-10, GW-11, GW-13, GW-14, GW-15, GW-16, which are screened within the upper Yorktown Formation. The remaining monitoring wells are used as observation wells to monitor the depth to groundwater. This was the fourth of four background sampling events for wells GW-15 and GW-16 for waste cell #11. Monitoring well construction information is summarized in Table 4 and the well locations are shown on Drawing 1. The network of monitoring wells was constructed to target the preferential flow path for groundwater underlying waste disposal areas.

Monitoring well GW-2 is the facility's background well and is located hydraulically upgradient of the waste disposal area. Monitoring wells GW-7, GW-8, GW-9, GW-10, GW-11, GW-13, GW-14, GW-15, and GW-16 are located downgradient or sidegradient of the waste disposal area and represent the facility's downgradient compliance wells.

Depth-to-water measurements were recorded to the nearest 0.01 foot prior to initiating groundwater purging and sampling activities. The monitoring point summary and respective water level elevations for this event are presented in Tables 1 and 2.

2.3 July 2007 Groundwater Monitoring Event

Personnel from Golder visited the facility on July 9-10, 2007, to micro-purge and sample monitoring wells GW-2, GW-7, GW-8, GW-9, GW-10, GW-11, GW-13, GW-14, GW-15, and GW-16. In addition to the groundwater samples, a groundwater sample was collected from the on-site water supply well and a leachate sample was collected from the facility's holding tank. Additional depth-to-water measurements were obtained from GW-1, GW-3, GW-4, GW-5, GW-6, and GW-12. No surface water samples were collected during this event as no flowing water was observed at locations SW-1 (upstream) and SW-2 through SW-4 (downstream).

Monitoring wells GW-2, GW-7, GW-8, GW-9, GW-10, GW-11, GW-13, GW-14, GW-15, and GW-16 were purged and sampled using the dedicated bladder pumps and micropurge procedures. Measurements of temperature, pH, specific conductivity, dissolved oxygen, oxidation-reduction potential, temperature, and turbidity were recorded on approximately 3 to 7-minute intervals during the purge, depending on the purge rate. In general, the purge rate for each well was matched to the yield of the monitoring well, as determined by continuously monitoring the depth to the water, up to a maximum purge rate of 500 milliliters per minute. Purging was continued until stabilization was indicated by the water quality parameters. In general, stabilization was deemed to be complete once the range in measured values for the required water quality parameters was less than 10% per parameter over three monitoring intervals.

Prior to sampling, the laboratory-supplied sample containers were prepared. Each sample container was labeled with the sample identification number, sampling personnel, date and time of sample collection, project name and number, and requested chemical analyses.

The required groundwater samples were collected directly from the dedicated bladder pump discharge lines in the labeled, laboratory-supplied, pre-preserved sample containers after purging was completed based on stabilization of all water quality parameters. After collection, the samples were placed in a cooler on ice, under chain-of-custody control. Copies of the sampling logs are presented in Appendix I. Included in each log is a description of the sampling equipment, sampling method, field observations, and water quality measurements. During the course of the sampling event, purge water was containerized and disposed of in the facility's leachate collection system.

Surface water samples are typically collected directly from the stream flow, by lowering the sample containers into the stream flow with the opening facing into the current flow, taking care to prevent the over flow of the sample containers and to minimize sample-induced turbidity. No flowing water was observed at the facility surface water points during the July 2007 event. The leachate sample was collected directly from the leachate piping manifold that serves the leachate holding tanks. Measurements of temperature, pH, specific conductivity, dissolved oxygen, oxidation-reduction potential, temperature, and turbidity were recorded during the collection of the surface water and leachate samples.

2.4 Laboratory Analysis Program

The July 2007 groundwater, surface water, and leachate samples were received by Environmental Conservation Laboratories, Inc. (ENCO) of Cary, North Carolina on July 10, 2007, under chain-of-custody control for analysis of the NC Appendix I constituents.

2.5 July 2007 Sampling Results

Analytical results for the July 2007 groundwater, surface water, and leachate samples are summarized in Tables 5, 6, and 7 with available historical data. The laboratory certificates-of-analysis, chain-of-custody forms and laboratory data reviews for the sampling event are included in Appendix II.

As presented in Table 5 and the laboratory certificates-of-analysis, barium and cobalt were detected in the upgradient well GW-2, above the Solid Waste Section Limits (SWSLs). Four inorganic constituents, barium, beryllium, cobalt, and zinc were detected above their respective SWSLs in one or more downgradient wells.

As presented in Table 6, no samples were collected from the four surface water monitoring points in the facility's monitoring network during this event as no flowing water was observed. Copper and zinc were detected above the SWSLs in the on-site water supply well (PW-1) during the July 2007 event. Both constituents are commonly found in water supply wells with galvanized casings, such as PW-1. Constituent concentrations reported for the leachate samples collected during the July 2007 sampling event are typical for leachate at this facility.

3.0 LABORATORY AND FIELD QA/QC

A field blank was collected by Golder personnel as part of the July 2007 groundwater sampling event. In addition to the field blank, a laboratory-prepared trip blank accompanied the volatile sample containers to and from the laboratory. ENCO analyzed the field blank for the same constituents as the groundwater samples, and the trip blank for NC Appendix I volatile organic compounds. A review of the laboratory data was performed by Golder personnel.

Barium and vanadium were detected in the field blank at estimated concentrations. Barium was also detected in the method blank at an estimated concentration. Toluene was detected in the trip blank at an estimated concentration. The detection of vanadium in GW-9 is considered to be blank-qualified based on the concentration detected in the blank. No other data qualification was necessary based on these detections.

4.0 DATA EVALUATION

The results of the data evaluations are presented in the following sections.

4.1 Statistical Evaluations

Barium, beryllium, cobalt, and zinc were detected in one or more downgradient monitoring wells at quantifiable concentrations. Pursuant to the requirements of 15A NCAC 13B.1633, these

concentrations were statistically evaluated in accordance with the procedures outlined in 15A NCAC 13B.1632(g) and (h) to determine if the reported concentration exceeded the facility background concentration. The statistical worksheets for barium, beryllium, cobalt, and zinc are presented in Appendix III. As presented, the reported concentrations are below their respective background concentrations.

4.2 North Carolina Groundwater and Surface Water Quality Standard Comparisons

No inorganic or organic constituents were detected above their respective Groundwater Quality Standards (2L Standards) during the July 2007 event. Cobalt was detected at quantifiable concentrations in background well GW-2 and downgradient well GW-7, and at estimated concentrations in downgradient wells GW-8, GW-14 and GW-15 above the Solid Waste Section Groundwater Protection Standard. These detections are attributed to naturally occurring conditions, since concentrations are representative of background and consistent with historical data. No surface water data were available for comparison to applicable standards during the July 2007 event.

5.0 CONCLUSIONS

During the July 2007 event, no inorganic constituents were detected at statistically significant concentrations and no organic constituents were detected above the SWSLs. Based on the results summarized herein, Republic Services of North Carolina, LLC will continue monitoring the uppermost aquifer beneath this facility in accordance with the requirements of the Detection Monitoring Program as outlined in Title 15A NCAC 13B.1633. The next compliance monitoring event for this facility is tentatively scheduled for January 2008.

6.0 REFERENCES

BLE (Bunnell-Lammons Engineering, Inc.), 2004. *Report of Ground Water Quality Results & Statistical Analysis, Second Semi-Annual Sampling Event of 2004 (N27) East Carolina Regional MSW Landfill, Bertie County, North Carolina.* December. 5 pp.

BLE (Bunnell-Lammons Engineering, Inc.), 2005. *Water Monitoring Procedures, June 2005 Revision.*

Law Engineering, 1996. Design Hydrogeologic Report Phase II (Cells 7 and 8). August. 15 pp.

NCGS (North Carolina Geologic Survey), 1985. Geologic Map of North Carolina. Scale 1:500,000.

TABLES

TABLE 1

Summary of Historical Static Water Level Data for Yorktown Formation
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

	Monitoring Well											
	GW-2	**GW-3**	**GW-5**	**GW-7**	**GW-8**	**GW-9**	**GW-10**	**GW-11**	**GW-13**	**GW-14**	**GW-15**	**GW-16**
TOC Elevation (ft AMSL)	66.36	66.23	62.60	58.79	60.04	51.94	53.22	72.42	74.76	78.74	78.23	63.02
Date	**Static Water Elevation (ft AMSL)**											
01/01/95	51.79	54.53	48.45	47.12	46.43	47.89	-	-	-	-	-	-
07/01/95	55.85	51.80	50.42	53.84	48.12	48.13	-	-	-	-	-	-
01/01/96	58.36	53.73	51.42	49.89	49.09	49.43	-	-	-	-	-	-
10/01/96	59.92	55.53	53.05	49.87	49.14	50.32	50.32	-	-	-	-	-
04/01/97	57.00	51.96	50.85	47.77	47.50	49.15	49.67	50.20	-	-	-	-
10/01/97	50.20	48.05	46.74	44.79	44.41	45.61	45.41	43.67	-	-	-	-
04/01/98	55.12	51.65	50.52	47.78	47.26	48.01	47.00	44.22	-	-	-	-
10/01/98	51.35	49.25	48.24	46.30	45.58	47.82	45.43	DRY	-	-	-	-
04/07/99	53.54	51.25	50.01	48.15	47.50	47.45	45.85	DRY	-	-	-	-
10/20/99	57.26	52.67	51.25	48.79	52.38	49.12	47.80	45.82	-	-	-	-
04/26/00	54.03	50.93	49.56	48.02	47.52	47.46	45.75	DRY	-	-	-	-
10/18/00	52.71	49.70	48.56	46.80	46.23	45.57	43.40	DRY	-	-	-	-
04/18/01	53.54	50.36	48.94	47.37	46.85	46.32	43.93	DRY	48.31	-	-	-
10/24/01	50.78	47.97	47.00	45.50	44.75	44.84	44.48	43.99	47.95	-	-	-
04/22/02	51.64	49.10	47.94	46.92	46.38	45.67	46.46	46.07	49.30	-	-	-
10/21/02	50.06	47.73	46.41	45.70	45.30	46.22	47.07	46.61	48.82	-	-	-
04/01/03	56.58	51.55	50.37	48.69	48.07	48.30	49.81	48.94	53.08	-	-	-
10/27/03	54.61	50.14	48.86	46.99	46.42	47.81	48.57	48.63	51.91	53.64	-	-
04/26/04	55.24	50.59	49.25	47.69	47.10	48.45	48.82	48.74	52.02	54.55	-	-
10/26/04	53.01	48.53	47.38	45.91	45.49	46.99	48.20	48.27	50.79	52.11	-	-
03/15/05	54.56	49.40	47.93	46.88	46.57	47.72	48.48	48.42	51.96	54.34	-	-
07/12/05	53.25	48.88	47.74	46.35	45.86	47.22	47.98	48.34	51.00	52.71	-	-
01/19/06	55.12	49.82	48.23	46.81	46.60	48.28	48.74	48.40	51.66	53.92	53.10	-
07/11/06	54.89	49.63	48.44	47.28	46.79	47.78	48.06	48.25	51.46	53.16	52.90	51.00
01/17/07	56.09	51.21	47.81	48.67	48.00	49.68	48.67	48.28	52.23	54.74	53.59	53.11
07/09/07	52.58	48.30	47.41	45.21	44.69	46.44	46.82	46.11	50.50	50.84	51.42	49.53
MEAN	*54.20*	*50.55*	*48.95*	*47.50*	*46.92*	*47.60*	*47.25*	*47.23*	*50.79*	*53.33*	*53.20*	*52.06*
MAXIMUM	*59.92*	*55.53*	*53.05*	*53.84*	*52.38*	*50.32*	*50.32*	*50.20*	*53.08*	*54.74*	*53.59*	*53.11*
MINIMUM	*50.06*	*47.73*	*46.41*	*44.79*	*44.41*	*44.84*	*43.40*	*43.67*	*47.95*	*50.84*	*52.90*	*51.00*

Notes: ft AMSL = feet above mean sea level.
TOC = top of casing
- = not measured

TABLE 2

Summary of Historical Static Water Level Data for Black Creek Formation
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

	Monitoring Well			
	GW-1	**GW-4**	**GW-6**	**GW-12**
TOC Elevation (ft AMSL)	65.87	62.53	58.95	66.13
Date	**Static Water Elevation (ft AMSL)**			
01/01/95	48.13	47.31	47.78	51.62
07/01/95	51.12	49.35	49.95	49.51
01/01/96	51.98	49.68	50.10	49.89
10/01/96	53.44	51.38	51.85	51.70
04/01/97	53.46	51.00	51.60	51.38
10/01/97	47.00	46.10	46.44	46.24
04/01/98	52.44	50.03	50.33	50.29
10/01/98	48.24	48.23	48.00	47.70
04/07/99	51.94	49.27	49.64	49.50
10/20/99	52.13	49.56	49.45	49.83
04/26/00	52.15	49.13	49.60	49.37
10/18/00	51.04	48.09	48.49	48.36
04/18/01	52.14	48.40	48.81	48.64
10/24/01	48.58	46.29	46.73	48.20
04/22/02	50.40	47.41	47.85	49.45
10/21/02	48.08	45.93	46.37	45.93
04/01/03	53.40	49.65	50.18	49.75
10/27/03	52.07	48.91	49.32	49.03
04/26/04	52.83	49.05	49.66	49.16
10/26/04	50.57	47.45	48.00	47.54
03/15/05	53.10	48.31	48.96	48.47
07/12/05	50.96	47.51	48.29	47.82
01/19/06	52.27	48.24	48.85	48.40
07/11/06	50.95	47.82	48.30	47.92
01/17/07	52.62	48.11	49.95	49.14
07/09/07	49.96	46.83	47.34	46.80
MEAN	*51.19*	*48.42*	*48.92*	*48.91*
MAXIMUM	*53.46*	*51.38*	*51.85*	*51.70*
MINIMUM	*47.00*	*45.93*	*46.37*	*45.93*

Notes: ft AMSL = feet above mean sea level.
TOC = top of casing

TABLE 3

Summary of Estimated Horizontal Flow Velocities
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Yorktown Formation - July 2007							
Gradient Calculation Segment	**Flow Direction**	**Gradient Segment Length (feet)**	**Gradient Segment Elevations (feet)**	**Horizontal Gradient (i, feet)**	**Effective Porosity (n_e)**	**Hydraulic Conductivity (K, cm/sec)**	**Velocity (V_{gw}, feet/year)**
i_1	SSW	1152	52 / 47	0.0043	0.27	0.00033	5.49
i_2	SW	1099	49 / 46	0.0027	0.27	0.00033	3.45
i_3	SSW	2401	51 / 45	0.0025	0.27	0.00033	3.16
i_4	NNE	877	52 / 49	0.0034	0.27	0.00033	4.33

Notes: Horizontal velocities based on the modified Darcy equation $V_{gw} = Ki/n_e$.
Values for K and n_e were taken from BLE's 2004 report referenced in the text.

TABLE 4

Summary of Well Construction Information
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Well Identification	Construction Date	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Well Depth (feet)	Well Diameter (inches)	Screened Interval (ft AMSL)	Screened Geologic Formation
GW-1	1993	63.7	65.87	62	2	11.7 to 1.7	Black Creek Formation
GW-2	1993	64.0	66.36	26	2	48.0 to 38.0	Yorktown Formation
GW-3	1993	63.7	66.23	26	2	47.7 to 37.7	Yorktown Formation
GW-4	1993	60.7	62.53	59	2	11.7 to 1.7	Black Creek Formation
GW-5	1993	60.9	62.60	24	2	46.9 to 36.9	Yorktown Formation
GW-6	1993	57.5	58.95	63	2	4.5 to -5.5	Black Creek Formation
GW-7	1993	57.4	58.79	18	2	49.4 to 39.4	Yorktown Formation
GW-8	1993	58.6	60.04	18	2	50.6 to 40.6	Yorktown Formation
GW-9	1993	50.1	51.94	13	2	47.1 to 37.1	Yorktown Formation
GW-10	1996	50.4	53.22	22	2	38.4 to 28.4	Yorktown Formation
GW-11	1997	68.6	72.42	28	2	55.6 to 40.6	Yorktown Formation
GW-12	1993	63.7	66.13	54	2	19.7 to 9.7	Black Creek Formation
GW-13	2001	72.2	74.76	41.3	2	45.9 to 30.9	Yorktown Formation
GW-14	2003	76.7	78.74	47.8	2	38.9 to 28.9	Yorktown Formation
GW-15	2005	75.2	78.23	42.6	2	24.2 to 39.2	Yorktown Formation
GW-16	2006	61.0	63.02	23.0	2	13.0 to 23	Yorktown Formation

Note: ft AMSL = feet above mean sea level

TABLE 5

Summary of Groundwater Monitoring Results
Detected Constituents
East Carolina Regional Landfill; Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring	Reporting	Sample	Detection	Quantitation	SWS Reporting	Yorktown Formation												Black Creek Formation				Blanks
						Upgradient	Downgradient											Upgradient	Downgradient			
Constituents/Parameters	Units	Date	Limit	Limit	Limit	GW-2	GW-3	GW-5	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-14	GW-15	GW-16	GW-1	GW-4	GW-6	GW-12	
Arsenic	ug/L	07/12/05	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
NC 2L = 50 ug/L	ug/L	01/19/06	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	--	--	10	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	2.0	10.0	10	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	2.0	10.0	10	2.1 B	--	--	ND	2.1 B	ND	ND	2.1 B	ND	3.4 B	ND	ND	--	--	--	--	3.4 J
	ug/L	07/09/07	2.0	10.0	10	ND	--	--	ND	2.1 J	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
Barium	ug/L	10/28/98	--	--	500	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
NC 2L = 2000 ug/L	ug/L	04/07/99	--	--	500	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/08/99	--	--	500	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/00	--	--	500	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/18/00	--	--	500	ND	ND	ND	ND	ND	ND	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	11/28/00	--	--	500	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	01/03/01	--	--	500	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	02/08/01	--	--	500	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	04/19/01	--	--	500	ND	ND	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/24/01	--	--	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/23/02	--	--	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/23/02	--	--	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/01/03	--	--	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	09/02/03	--	--	500	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
	ug/L	10/28/03	--	--	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/04	--	--	500	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	10/26/04	--	--	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	03/15/05	--	--	500	500	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	07/12/05	--	--	500	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	01/12/06	--	--	30	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND
	ug/L	01/19/06	--	--	500	523	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	--	--	500	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	--	--	500	517	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	0.20	10.0	500	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	0.20	10.0	100	516	--	--	122	137	82.1	95.7	17.8	273	34.0	98.3	29.0	--	--	--	--	0.30 J
	ug/L	07/09/07	0.20	10.0	100	448	--	--	162	121	93.5 J	89.3 J	20.8 J	259	36.3 J	114	31.1 J	--	--	--	--	0.80 J
Beryllium	ug/L	10/28/98	--	--	2	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
SWS GPS = 4 ug/L	ug/L	04/07/99	--	--	2	ND	ND	ND	2	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/08/99	--	--	2	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/00	--	--	2	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/18/00	--	--	2	ND	ND	ND	ND	ND	ND	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	11/28/00	--	--	2	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	01/03/01	--	--	2	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	02/08/01	--	--	2	--	--	--	--	--	--	--	--	4	--	--	--	--	--	--	--	--
	ug/L	04/19/01	--	--	2	ND	ND	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/24/01	--	--	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/23/02	--	--	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/23/02	--	--	2	ND	ND	ND	3	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/01/03	--	--	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	09/02/03	--	--	2	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
	ug/L	10/28/03	--	--	2	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/04	--	--	2	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	10/26/04	--	--	2	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	03/15/05	--	--	2	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	07/12/05	--	--	2	ND	--	--	2.2	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	01/12/06	--	--	2	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND
	ug/L	01/19/06	--	--	2	ND	--	--	2	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	--	--	2	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	--	--	2	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	0.70	1.00	2	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	0.70	1.00	1	1.00	--	--	1.90	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	07/09/07	0.70	1.00	1	0.70 J	--	--	1.90	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND

TABLE 5

Summary of Groundwater Monitoring Results
Detected Constituents
East Carolina Regional Landfill; Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring	Reporting	Sample	Detection	Quantitation	SWS Reporting	Yorktown Formation												Black Creek Formation				Blanks
						Upgradient	Downgradient											Upgradient	Downgradient			
Constituents/Parameters	Units	Date	Limit	Limit	Limit	GW-2	GW-3	GW-5	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-14	GW-15	GW-16	GW-1	GW-4	GW-6	GW-12	
Cadmium	ug/L	10/28/98	--	--	1	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
NC 2L = 1.75 ug/L	ug/L	04/07/99	--	--	1	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/08/99	--	--	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/00	--	--	1	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/18/00	--	--	1	ND	ND	ND	ND	ND	ND	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	11/28/00	--	--	1	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	01/03/01	--	--	1	--	--	--	--	--	--	--	--	5	--	--	--	--	--	--	--	--
	ug/L	02/08/01	--	--	1	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	04/19/01	--	--	1	ND	ND	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/24/01	--	--	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/23/02	--	--	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/23/02	--	--	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/01/03	--	--	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	09/02/03	--	--	1	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
	ug/L	10/28/03	--	--	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/04	--	--	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	10/26/04	--	--	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	03/15/05	--	--	1	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	07/12/05	--	--	1	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	01/12/06	--	--	1	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND
	ug/L	01/19/06	--	--	1	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	--	--	1	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	--	--	1	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	0.50	1.00	1	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	0.50	1.00	1	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	07/09/07	0.50	1.00	1	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
Chromium	ug/L	10/28/98	--	--	10	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
NC 2L = 50 ug/L	ug/L	04/07/99	--	--	10	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/08/99	--	--	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/00	--	--	10	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/18/00	--	--	10	ND	ND	ND	ND	ND	ND	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	11/28/00	--	--	10	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	01/03/01	--	--	10	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	02/08/01	--	--	10	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	04/19/01	--	--	10	ND	ND	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/24/01	--	--	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/23/02	--	--	10	ND	ND	ND	ND	10	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/23/02	--	--	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/01/03	--	--	10	ND	ND	ND	ND	10	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	09/02/03	--	--	10	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
	ug/L	10/28/03	--	--	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/04	--	--	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	10/26/04	--	--	10	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	03/15/05	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	07/12/05	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	01/12/06	--	--	10	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND
	ug/L	01/19/06	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	--	--	10	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	2.0	10.0	10	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	2.0	10.0	10	ND	--	--	ND	ND	ND	ND	4.3 J	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	07/09/07	2.0	10.0	10	ND	--	--	ND	ND	ND	ND	2.5 J	ND	ND	ND	ND	--	--	--	--	ND

TABLE 5

Summary of Groundwater Monitoring Results
Detected Constituents
East Carolina Regional Landfill; Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Yorktown Formation												Black Creek Formation				Blanks
						Upgradient	Downgradient											Upgradient	Downgradient			
						GW-2	GW-3	GW-5	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-14	GW-15	GW-16	GW-1	GW-4	GW-6	GW-12	
Cobalt	ug/L	10/28/98	--	--	10	ND	ND	ND	30	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
SWS GPS = 2 ug/L	ug/L	04/07/99	--	--	10	ND	ND	ND	20	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/08/99	--	--	10	10	ND	ND	20	ND	ND	ND	ND	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/00	--	--	10	ND	ND	ND	30	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/18/00	--	--	10	ND	ND	ND	30	ND	ND	ND	Dry	30	--	--	--	ND	ND	ND	ND	ND
	ug/L	11/28/00	--	--	10	--	--	--	--	--	--	--	--	10	--	--	--	--	--	--	--	--
	ug/L	01/03/01	--	--	10	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	02/08/01	--	--	10	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	04/19/01	--	--	10	ND	ND	ND	30	ND	--	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/24/01	--	--	10	ND	ND	ND	30	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/23/02	--	--	10	ND	ND	ND	30	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/23/02	--	--	10	ND	ND	ND	50	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/01/03	--	--	10	10	ND	ND	40	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	09/02/03	--	--	10	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
	ug/L	10/28/03	--	--	10	ND	ND	ND	50	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/04	--	--	10	ND	ND	ND	30	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	10/26/04	--	--	10	ND	ND	ND	40	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	03/15/05	--	--	10	10	--	--	36	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	07/12/05	--	--	10	ND	--	--	40	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	01/12/06	--	--	10	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND
	ug/L	01/19/06	--	--	10	11.9	--	--	30	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	--	--	10	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	--	--	10	12.5	--	--	31.6	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	2.0	10.0	10	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	2.0	10.0	10	10.3	--	--	34.9	3.9 J	ND	ND	ND	3.0 J	5.8 J	2.9 J	ND	--	--	--	--	ND
	ug/L	07/09/07	2.0	10.0	10	10.0	--	--	37.5	2.9 J	ND	ND	ND	ND	6.1 J	2.6 J	ND	--	--	--	--	ND
Copper	ug/L	07/12/05	--	--	200	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
NC 2L = 1000 ug/L	ug/L	01/19/06	--	--	200	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	--	--	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	07/11/06	--	--	200	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	0.60	10.0	200	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	0.60	10.0	10	ND	--	--	0.80 J	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	07/09/07	0.60	10.0	10	ND	--	--	5.40 J	ND	ND	1.00 J	ND	ND	ND	ND	ND	--	--	--	--	ND
Lead	ug/L	10/28/98	--	--	10	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
NC 2L = 15 ug/L	ug/L	04/07/99	--	--	10	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/08/99	--	--	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/00	--	--	10	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/18/00	--	--	10	ND	ND	ND	ND	ND	ND	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	11/28/00	--	--	10	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	01/03/01	--	--	10	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	02/08/01	--	--	10	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	04/19/01	--	--	10	ND	ND	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/24/01	--	--	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/23/02	--	--	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/23/02	--	--	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/01/03	--	--	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	10	ND	ND	ND	ND
	ug/L	09/02/03	--	--	10	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
	ug/L	10/28/03	--	--	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/04	--	--	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	10/26/04	--	--	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	03/15/05	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	07/12/05	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	01/12/06	--	--	10	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND
	ug/L	01/19/06	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	--	--	10	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	2.0	10.0	10	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	2.0	10.0	10	ND	--	--	2.3 J	ND	ND	ND	ND	ND	ND	ND	2.3 J	--	--	--	--	ND
	ug/L	07/09/07	2.0	10.0	10	2.3 J	--	--	2.9 J	2.9 J	ND	ND	2.0 J	ND	ND	2.2 J	ND	--	--	--	--	ND

TABLE 5

Summary of Groundwater Monitoring Results
Detected Constituents
East Carolina Regional Landfill; Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring	Reporting	Sample	Detection	Quantitation	SWS Reporting	Yorktown Formation												Black Creek Formation				Blanks
						Upgradient	Downgradient											Upgradient	Downgradient			
Constituents/Parameters	Units	Date	Limit	Limit	Limit	GW-2	GW-3	GW-5	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-14	GW-15	GW-16	GW-1	GW-4	GW-6	GW-12	
Nickel	ug/L	10/28/98	--	--	50	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
NC 2L = 100 ug/L	ug/L	04/07/99	--	--	50	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/08/99	--	--	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND	ND	90	ND
	ug/L	04/27/00	--	--	50	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/18/00	--	--	50	ND	ND	ND	ND	ND	ND	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	11/28/00	--	--	50	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	01/03/01	--	--	50	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	02/08/01	--	--	50	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	04/19/01	--	--	50	ND	ND	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/24/01	--	--	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/23/02	--	--	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/23/02	--	--	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/01/03	--	--	50	ND	ND	ND	ND	20	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	09/02/03	--	--	50	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
	ug/L	10/28/03	--	--	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/04	--	--	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	10/26/04	--	--	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	03/15/05	--	--	50	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	07/12/05	--	--	50	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	01/12/06	--	--	50	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND
	ug/L	01/19/06	--	--	50	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	--	--	50	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	--	--	50	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	2.0	10.0	50	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	2.0	10.0	50	7.4 J	--	--	10.4	3.7 J	4.1 J	ND	ND	3.0 J	2.8 J	3.6 J	ND	--	--	--	--	ND
	ug/L	07/09/07	2.0	10.0	50	6.0 J	--	--	9.1 J	3.8 J	2.0 J	ND	ND	2.3 J	ND	2.5 J	ND	--	--	--	--	ND
Selenium	ug/L	07/12/05	--	--	20	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
NC 2L = 50 ug/L	ug/L	01/19/06	--	--	20	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	--	--	20	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	--	--	20	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	2.0	10.0	20	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	2.0	10.0	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	5.7 J	--	--	--	--	ND
	ug/L	07/09/07	2.0	10.0	10	ND	--	--	ND	ND	ND	2.0 J	ND	ND	ND	ND	ND	--	--	--	--	ND
Thallium	ug/L	07/12/05	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
SWS GPS = 0.28 ug/L	ug/L	01/19/06	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	--	--	10	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	--	--	10	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	4.0	10.0	10	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	0.044	0.050	5.5	0.070 J	--	--	0.049 J	ND	ND	ND	ND	0.045 J	ND	ND	ND	--	--	--	--	ND
	ug/L	07/09/07	0.036	0.050	6	0.065 J	--	--	0.050 J	0.058 J	0.054 J	ND	ND	0.060 J	ND	ND	0.040 J	--	--	--	--	ND
Vanadium	ug/L	07/12/05	--	--	40	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
SWS GPS = 25 ug/L	ug/L	01/19/06	--	--	40	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	--	--	40	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	--	--	40	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	1.0	10.0	40	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	1.0	10.0	25	ND	--	--	ND	ND	ND	ND	ND	1.0 J	1.2 J	1.1 J	ND	--	--	--	--	ND
	ug/L	07/09/07	1.0	10.0	25	ND	--	--	ND	ND	1.5 B	ND	ND	ND	ND	ND	ND	--	--	--	--	1.0 J

TABLE 5

Summary of Groundwater Monitoring Results
Detected Constituents
East Carolina Regional Landfill; Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Yorktown Formation												Black Creek Formation				Blanks
						Upgradient	Downgradient											Upgradient	Downgradient			
						GW-2	GW-3	GW-5	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-14	GW-15	GW-16	GW-1	GW-4	GW-6	GW-12	
Zinc	ug/L	10/28/98	--	--	50	ND	ND	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND	ND	ND	ND	ND
NC 2L = 1050 ug/L	ug/L	04/07/99	--	--	50	50	30	ND	40	30	ND	ND	Dry	--	--	--	--	30	30	70	20	30
	ug/L	12/08/99	--	--	50	ND	ND	180	40	80	ND	60	30	--	--	--	--	ND	50	30	140	ND
	ug/L	04/27/00	--	--	50	90	140	50	70	ND	150	ND	Dry	--	--	--	--	50	70	ND	ND	ND
	ug/L	10/18/00	--	--	50	ND	ND	60	ND	ND	ND	ND	Dry	ND	--	--	--	ND	ND	60	60	ND
	ug/L	11/28/00	--	--	50	--	--	--	--	--	--	--	--	60	--	--	--	--	--	--	--	--
	ug/L	01/03/01	--	--	50	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	02/08/01	--	--	50	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
	ug/L	04/19/01	--	--	50	ND	ND	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	12/24/01	--	--	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/23/02	--	--	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	10/23/02	--	--	50	ND	ND	ND	ND	ND	90	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND
	ug/L	04/01/03	--	--	50	110	60	90	120	50	90	50	70	40	--	--	--	30	60	40	30	30
	ug/L	09/02/03	--	--	50	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
	ug/L	10/28/03	--	--	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	04/27/04	--	--	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	10/26/04	--	--	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND
	ug/L	03/15/05	--	--	50	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	07/12/05	--	--	50	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	01/12/06	--	--	50	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND
	ug/L	01/19/06	--	--	50	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	--	--	50	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	--	--	50	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	1.0	10.0	50	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	1.0	10.0	10	18.8 B	--	--	23.3 B	12.2 B	12.7 B	5.9 B	10.4 B	15.6 B	11.2 B	7.7 B	8.1 B	--	--	--	--	5.5 J
	ug/L	07/09/07	1.0	10.0	10	8.3 J	--	--	21.5	3.9 J	4.8 J	4.4 J	ND	3.9 J	3.4 J	5.2 J	3.7 J	--	--	--	--	ND
Chloroform	ug/L	07/12/05	--	--	5	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
NC 2L = 70 ug/L	ug/L	01/19/06	--	--	5	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	0.40	1.0	5	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	0.40	1.0	5	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	0.40	1.0	5	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	0.16	1.0	5	ND	--	--	ND	ND	ND	ND	0.63 J	ND	ND	ND	1.6 J	--	--	--	--	ND
	ug/L	07/09/07	0.16	1.0	5	ND	--	--	ND	ND	ND	ND	0.37 J	ND	ND	ND	1.2 J	--	--	--	--	ND
Trichloroethene	ug/L	07/12/05	--	--	5	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
NC 2L = 2.8 ug/L	ug/L	01/19/06	--	--	5	ND	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND
	ug/L	06/28/06	0.4	1.0	5	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	ND
	ug/L	07/11/06	--	--	5	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	10/31/06	0.40	1.0	5	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	ND
	ug/L	01/17/07	0.23	1.0	3	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	ug/L	07/09/07	0.23	1.0	1	0.47 J	--	--	ND	0.35 J	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
pH (Field)	S.U.	10/28/98	--	--	--	5.38	5.77	5.63	4.61	5.58	5.76	6.63	Dry	--	--	--	--	6.69	6.14	6.53	6.68	--
	S.U.	04/07/99	--	--	--	5.14	5.61	5.71	4.6	5.38	5.66	6.32	Dry	--	--	--	--	6.45	6.28	6.97	6.67	--
	S.U.	12/08/99	--	--	--	5.11	5.43	5.2	6.31	5.2	5.30	6.02	7.5	--	--	--	--	6.55	5.89	8.37	6.48	--
	S.U.	04/27/00	--	--	--	5.06	5.19	5.38	4.5	5.28	5.64	5.84	Dry	--	--	--	--	6.62	6.13	6.4	6.46	--
	S.U.	10/18/00	--	--	--	4.93	5.22	5.29	4.19	5.04	5.41	6.04	Dry	6.00	--	--	--	6.29	5.82	6.12	6.28	--
	S.U.	11/28/00	--	--	--	--	--	--	--	--	--	--	--	4.24	--	--	--	--	--	--	--	--
	S.U.	01/03/01	--	--	--	--	--	--	--	--	--	--	--	5.83	--	--	--	--	--	--	--	--
	S.U.	02/08/01	--	--	--	--	--	--	--	--	--	--	--	5.94	--	--	--	--	--	--	--	--
	S.U.	04/19/01	--	--	--	4.98	5.35	5.24	4.26	5.07	--	6.27	Dry	5.76	--	--	--	6.42	5.84	6.15	6.38	--
	S.U.	12/24/01	--	--	--	5.13	5.38	5.44	4.27	5.03	5.57	6.41	5.46	5.19	--	--	--	6.66	6.06	6.33	6.53	--
	S.U.	04/23/02	--	--	--	4.97	5.22	5.26	4.24	4.91	5.40	6.50	5.05	4.89	--	--	--	6.21	5.75	5.95	6.13	--
	S.U.	10/23/02	--	--	--	4.62	4.8	4.95	4.02	4.67	5.03	6.05	4.9	5.00	--	--	--	6.01	5.7	5.76	6.1	--
	S.U.	04/01/03	--	--	--	4.92	5.09	5.24	4.26	4.99	5.46	6.25	5.41	5.28	--	--	--	6.49	5.95	6.21	6.11	--
	S.U.	09/02/03	--	--	--	--	--	--	--	--	--	--	--	--	5.54	--	--	--	--	--	--	--
	S.U.	10/28/03	--	--	--	4.74	5.44	5.28	4.13	5.01	5.31	6.29	5.13	4.97	5.55	--	--	6.26	5.95	5.92	6.68	--
	S.U.	04/27/04	--	--	--	4.70	5.23	5.30	4.19	4.70	5.08	6.03	5.16	4.59	5.35	--	--	6.41	5.92	6.2	6.35	--
	S.U.	10/26/04	--	--	--	4.45	4.65	4.74	3.97	4.49	5.05	5.73	4.74	4.55	4.66	--	--	6.24	5.4	5.8	6.1	--
	S.U.	03/15/05	--	--	--	4.70	--	--	4.21	5.04	5.32	6.03	5.26	4.78	5.73	--	--	--	--	--	--	--
	S.U.	07/12/05	--	--	--	4.15	--	--	4.17	4.88	4.73	5.60	4.85	4.33	5.53	--	--	--	--	--	--	--
	S.U.	01/19/06	--	--	--	2.69	--	--	2.38	5.05	4.68	6.58	3.56	5.76	6.72	--	--	--	--	--	--	--
	S.U.	06/28/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.27	--	--	--	--	--
	S.U.	07/11/06	--	--	--	4.64	--	--	4.23	4.94	5.17	5.67	5.17	4.81	5.24	5.13	4.98	--	--	--	--	--
	S.U.	10/31/06	--	--	0.01	--	--	--	--	--	--	--	--	--	--	4.67	4.62	--	--	--	--	--
	S.U.	01/17/07	--	--	0.01	4.01	--	--	4.10	4.72	5.14	6.04	5.18	4.67	5.20	4.89	4.83	--	--	--	--	--
	S.U.	07/09/07	--	--	0.01	4.31	--	--	4.18	5.00	5.20	6.08	4.98	4.65	5.12	4.84	4.72	--	--	--	--	--

TABLE 5

Summary of Groundwater Monitoring Results
Detected Constituents
East Carolina Regional Landfill; Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Yorktown Formation												Black Creek Formation				Blanks
						Upgradient	Downgradient											Upgradient	Downgradient			
						GW-2	GW-3	GW-5	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-14	GW-15	GW-16	GW-1	GW-4	GW-6	GW-12	
Specific Conductance (Field)	uS/cm	10/28/98	--	--	1	83	44	59	257	98	78	115	Dry	--	--	--	--	132	63	91	120	--
	uS/cm	04/07/99	--	--	1	69.41	33.61	44.91	173	75.21	52.07	67.89	Dry	--	--	--	--	85.82	46.13	68.52	82.16	--
	uS/cm	12/08/99	--	--	1	61	17	98	306	52	89	48	41	--	--	--	--	33	102	83	47	--
	uS/cm	04/27/00	--	--	1	78	34	48	210	87	57	57	Dry	--	--	--	--	96	49	72	86	--
	uS/cm	10/18/00	--	--	1	110	48	67	317	130	76	108	Dry	--	--	--	--	143	69	104	125	--
	uS/cm	11/28/00	--	--	1	--	--	--	--	--	--	--	--	191	--	--	--	--	--	--	--	--
	uS/cm	01/03/01	--	--	1	--	--	--	--	--	--	--	--	7.3	--	--	--	--	--	--	--	--
	uS/cm	02/08/01	--	--	1	--	--	--	--	--	--	--	--	75	--	--	--	--	--	--	--	--
	uS/cm	04/19/01	--	--	1	106	50	64	284	130	--	125	Dry	5.77	--	--	--	143	67	101	121	--
	uS/cm	12/24/01	--	--	1	85	37	50	224	105	71	104	46	80	--	--	--	115	53	79	96	--
	uS/cm	04/23/02	--	--	1	112	53	65	282	136	84	131	62	156	--	--	--	145	69	101	120	--
	uS/cm	10/23/02	--	--	1	62	30	36	161	77	49	75	37	41	--	--	--	82	38	57	67	--
	uS/cm	04/01/03	--	--	1	71	35	52	131	86	54	72	43	83	--	--	--	82	46	62	66	--
	uS/cm	09/02/03	--	--	1	--	--	--	--	--	--	--	--	--	43	--	--	--	--	--	--	--
	uS/cm	10/28/03	--	--	1	84	37	43	221	89	64	85	38	93	38	--	--	100	45	69	87	--
	uS/cm	04/27/04	--	--	1	99	66	61	227	108	82	102	53	118	67	--	--	99	66	90	100	--
	uS/cm	10/26/04	--	--	1	110	54	57	259	115	95	122	51	97	25	--	--	124	60	91	99	--
	uS/cm	03/15/05	--	--	1	108	--	--	223	94	79	97	47	91	38	--	--	--	--	--	--	--
	uS/cm	07/12/05	--	--	1	106	--	--	231	98	84	88	49	91	46	--	--	--	--	--	--	--
	uS/cm	01/19/06	--	--	1	103	--	--	214	100	66	98	47	89	42	--	--	--	--	--	--	--
	uS/cm	06/28/06	--	--	1	--	--	--	--	--	--	--	--	--	--	--	59	--	--	--	--	--
	uS/cm	07/11/06	--	--	1	147	--	--	307	146	121	129	70	126	60	106	35	--	--	--	--	--
	uS/cm	10/31/06	--	--	1	--	--	--	--	--	--	--	--	--	--	90	23	--	--	--	--	--
	uS/cm	01/17/07	--	--	1	136	--	--	291	164	112	132	52	98	42	92	18	--	--	--	--	--
	uS/cm	07/09/07	--	--	1	134	--	--	268	133	115	109	54	89	44	92	23	--	--	--	--	--
Temperature (Field)	°C	10/28/98	--	--	--	15.3	17	17.9	19	19.7	18.6	15.9	Dry	--	--	--	--	14.9	17.3	17.3	16.7	--
	°C	04/07/99	--	--	--	16.7	17	17.6	17.3	17.3	15.6	17.6	Dry	--	--	--	--	16.5	18.2	18.1	16.7	--
	°C	12/08/99	--	--	--	15.1	16.2	17.7	17	25	17.1	16.7	17	--	--	--	--	15.2	16.8	17.2	15.1	--
	°C	04/27/00	--	--	--	15.6	15.7	16	13.1	14.4	13.7	12.9	Dry	--	--	--	--	15.7	16.1	15.9	15.8	--
	°C	10/18/00	--	--	--	16.7	17.4	18.2	19.1	19.3	20.4	16.6	Dry	--	--	--	--	16.7	17.9	17.6	16.8	--
	°C	11/28/00	--	--	--	--	--	--	--	--	--	--	--	15.6	--	--	--	--	--	--	--	--
	°C	01/03/01	--	--	--	--	--	--	--	--	--	--	--	14.5	--	--	--	--	--	--	--	--
	°C	02/08/01	--	--	--	--	--	--	--	--	--	--	--	16.9	--	--	--	--	--	--	--	--
	°C	04/19/01	--	--	--	14.9	15.2	16.3	31	14.7	--	13.7	Dry	17.1	--	--	--	15.5	16.8	17	16.5	--
	°C	12/24/01	--	--	--	17.9	19.2	20	20.2	20.7	20.8	17.7	20.1	21.6	--	--	--	17.7	20.6	19.8	18.6	--
	°C	04/23/02	--	--	--	15.9	17	16.7	16	15.7	15.6	14.5	18.4	17.1	--	--	--	16.3	17.9	17.2	17.5	--
	°C	10/23/02	--	--	--	15.8	17.9	18.3	19.1	19.4	20.3	17	17.8	15.7	--	--	--	15.6	18.2	18	17.2	--
	°C	04/01/03	--	--	--	16.9	17.2	17.7	16.4	17	14.4	15.7	18.5	17.3	--	--	--	16.8	18.1	17.7	17.5	--
	°C	09/02/03	--	--	--	--	--	--	--	--	--	--	--	--	19.2	--	--	--	--	--	--	--
	°C	10/28/03	--	--	--	16.5	18.5	18.7	19.1	18	18.1	15.9	16.6	18.3	17.7	--	--	16.4	18.6	18	18.5	--
	°C	04/27/04	--	--	--	16	18.9	18.2	17	15.5	14	15	17.3	19.4	20.1	--	--	16.2	18.6	18.2	18.9	--
	°C	10/26/04	--	--	--	16.8	17.9	18.8	18.8	19.1	19.7	17	18	15.9	17.2	--	--	18	18.6	18.3	19.6	--
	°C	03/15/05	--	--	--	16.18	--	--	15.79	15.8	12.86	14.6	17.44	16.39	16.17	--	--	--	--	--	--	--
	°C	07/12/05	--	--	--	16.32	--	--	16.8	16.56	18.09	15.97	17.78	17.92	22.34	--	--	--	--	--	--	--
	°C	01/19/06	--	--	--	16.61	--	--	17.5	17.51	15.06	15.39	17.88	17.19	16.67	--	--	--	--	--	--	--
	°C	06/28/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.67	--	--	--	--	--
	°C	07/11/06	--	--	--	16.1	--	--	16.8	17	18.2	15.7	17.7	17.3	17.9	19.9	18.4	--	--	--	--	--
	°C	10/31/06	--	--	0.01	--	--	--	--	--	--	--	--	--	--	17.6	18.7	--	--	--	--	--
	°C	01/17/07	--	--	--	15.6	--	--	15.6	15.8	14.5	15	16.6	16	13.3	14.9	15.6	--	--	--	--	--
	°C	07/09/07	--	--	--	17.09	--	--	17.81	17.53	18.9	17.00	17.75	17.80	19.16	18.61	18.35	--	--	--	--	--

TABLE 5

Summary of Groundwater Monitoring Results
Detected Constituents
East Carolina Regional Landfill; Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Yorktown Formation												Black Creek Formation				Blanks
						Upgradient	Downgradient											Upgradient	Downgradient			
						GW-2	GW-3	GW-5	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-14	GW-15	GW-16	GW-1	GW-4	GW-6	GW-12	
Turbidity (Field)	NTU	10/28/98	--	--	0.1	80	0.86	6.31	65	19	13	17	Dry	--	--	--	--	12	87	46	15	--
	NTU	04/07/99	--	--	0.1	20	2.21	5.25	1.51	3.13	2.61	2.96	Dry	--	--	--	--	5.21	18	16.24	4.84	--
	NTU	12/08/99	--	--	0.1	20	4.05	120	9.46	5.04	2.24	26	19	--	--	--	--	4.27	184	17	40	--
	NTU	04/27/00	--	--	0.1	32	2.22	20	18	14	7.07	1.76	Dry	--	--	--	--	4.9	125	127	13	--
	NTU	10/18/00	--	--	0.1	20.4	2.86	36.4	38.1	9.2	6.39	1.6	Dry	15.9	--	--	--	10.4	37.4	110	6.51	--
	NTU	11/28/00	--	--	0.1	--	--	--	--	--	--	--	--	11.4	--	--	--	--	--	--	--	--
	NTU	01/03/01	--	--	0.1	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--	--
	NTU	02/08/01	--	--	0.1	--	--	--	--	--	--	--	--	18	--	--	--	--	--	--	--	--
	NTU	04/19/01	--	--	0.1	169	10	7.73	31	11	--	11	Dry	16	--	--	--	4.32	65	71	5.74	--
	NTU	12/24/01	--	--	0.1	28	4.82	16	60	5.31	33	2.45	61	29	--	--	--	4.93	37	37	5.34	--
	NTU	04/23/02	--	--	0.1	27	1.6	5.5	26	2.08	290	450	11	4.28	--	--	--	3.5	42	31	1.13	--
	NTU	10/23/02	--	--	0.1	6.54	2.3	4.39	5.77	1.84	3.97	1.35	71	6.58	--	--	--	2.79	22	15	4.3	--
	NTU	04/01/03	--	--	0.1	44	1.98	7.16	23	2.63	15	91	44	10	--	--	--	4.34	17	17	1.05	--
	NTU	09/02/03	--	--	0.1	--	--	--	--	--	--	--	--	--	49	--	--	--	--	--	--	--
	NTU	10/28/03	--	--	0.1	34	3.1	7.4	25	1.8	25	7.99	20	13	38	--	--	11	18	19	1.85	--
	NTU	04/27/04	--	--	0.1	32	1.49	4.26	13	0.85	33	34	20	2.37	15	--	--	8.04	17	30	2.71	--
	NTU	10/26/04	--	--	0.1	10	2.11	2.1	10	0.89	38	5.89	29	44	54	--	--	7.22	21	23	4.59	--
	NTU	03/15/05	--	--	0.1	68.6	--	--	17.9	15.4	43.5	45.1	50.3	26.3	399	--	--	--	--	--	--	--
	NTU	07/12/05	--	--	0.1	78.0	--	--	29.7	30.3	37.3	30.3	45.2	36.3	292	--	--	--	--	--	--	--
	NTU	01/19/06	--	--	0.1	39.2	--	--	0.0	0.0	0.0	0.0	0.0	0.0	88.5	--	--	--	--	--	--	--
	NTU	06/28/06	--	--	0.1	--	--	--	--	--	--	--	--	--	--	--	22.0	--	--	--	--	--
	NTU	07/11/06	--	--	0.1	33.6	--	--	3.4	1.7	25.4	31.0	34.5	15.0	10.3	78.2	39.0	--	--	--	--	--
	NTU	10/31/06	--	--	0.1	--	--	--	--	--	--	--	--	--	--	193	195	--	--	--	--	--
	NTU	01/17/07	--	--	0.1	13.0	--	--	0.0	9.5	23.7	97.20	6.9	8.8	7.4	8.3	0.0	--	--	--	--	--
	NTU	07/09/07	--	--	0.1	0	--	--	0	0	0	65.8	0	0	0	0	0	--	--	--	--	--
Oxidation Reduction Potential (Field)	mV	03/15/05	--	--	--	363	--	--	411	236	121	14	270	319	133	--	--	--	--	--	--	--
	mV	07/12/05	--	--	--	407	--	--	412	234	173	5	279	375	156	--	--	--	--	--	--	--
	mV	01/19/06	--	--	--	361	--	--	370	222	174	16	283	339	157	--	--	--	--	--	--	--
	mV	06/28/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	241	--	--	--	--	--
	mV	07/11/06	--	--	--	382	--	--	309	312	216	115	317	363	260	290	318	--	--	--	--	--
	mV	10/31/06	--	--	1	--	--	--	--	--	--	--	--	--	--	343	297	--	--	--	--	--
	mV	01/17/07	--	--	--	347	--	--	391	306	153	32	290	318	268	305	327	--	--	--	--	--
	mV	07/09/07	--	--	--	371	--	--	431	309	204	81	290	352	226	328	331	--	--	--	--	--
Dissolved Oxygen (Field)	mg/l	03/15/05	--	--	--	4.65	--	--	2.69	1.61	1.23	1.39	2.10	5.55	5.75	--	--	--	--	--	--	--
	mg/l	07/12/05	--	--	--	6.22	--	--	3.06	0.53	1.83	1.12	2.48	6.90	9.98	--	--	--	--	--	--	--
	mg/l	01/19/06	--	--	--	3.34	--	--	0.00	0.00	0.00	0.00	0.21	3.71	0.00	--	--	--	--	--	--	--
	mg/l	06/28/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.60	--	--	--	--	--
	mg/l	07/11/06	--	--	--	9.31	--	--	5.50	3.00	3.32	1.60	3.52	7.88	4.13	8.05	3.84	--	--	--	--	--
	mg/l	10/31/06	--	--	0.1	--	--	--	--	--	--	--	--	--	--	6.30	2.5	--	--	--	--	--
	mg/l	01/17/07	--	--	--	8.80	--	--	3.90	1.70	2.70	2.10	4.60	7.80	2.70	7.90	2.7	--	--	--	--	--
	mg/l	07/09/07	--	--	--	6.30	--	--	3.20	0.90	1.60	2.30	2.70	6.80	1.00	7.00	2.80	--	--	--	--	--

Notes:

mg/L = milligrams per liter
ug/L = micrograms per liter
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
ND = Not detected at the stated reporting limit
uS= microsiemens
mV = Millivolts
J = Estimated Value
B = Blank-Qualified Value
-- = no data
Blanks = field, trip and method blanks
Shaded = Concentrations above the Groundwater Protection Standards have been shaded
Standards = NC 2L Groundwater Standards or North Carolina Solid Waste Section Groundwater Protection Standards
SWS Reporting Limit = NCPQL prior to 2007 and NCSWSL starting in 01/18/07

TABLE 6

Summary of Surface Water Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituent/Parameter	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upstream SW-1	Downstream SW-2	Downstream SW-3	Downstream SW-4	Blanks
Arsenic	ug/L	07/12/05	--	--	10	ND	ND	ND	ND	ND
SW Standard = 50 ug/L	ug/L	01/19/06	--	--	10	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	10	ND	ND	ND	ND	ND
	ug/L	01/17/07	2	10	10	ND	ND	ND	ND	3.4 J
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--
Barium	ug/L	09/16/93	--	--	--	100	60	90	dry	--
(No SW Standard)	ug/L	09/20/93	--	--	--	80	50	120	dry	--
	ug/L	09/22/93	--	--	--	50	60	140	dry	--
	ug/L	09/24/93	--	--	--	210	50	230	dry	--
	ug/L	10/04/93	--	--	--	40	70	70	dry	--
	ug/L	01/20/94	--	--	--	50	130	60	40	--
	ug/L	07/28/94	--	--	--	40	dry	60	50	--
	ug/L	01/26/95	--	--	--	80	80	100	10	--
	ug/L	07/26/95	--	--	--	ND	ND	ND	dry	--
	ug/L	01/23/96	--	--	--	ND	ND	ND	dry	--
	ug/L	10/10/96	--	--	--	ND	ND	ND	dry	--
	ug/L	04/15/97	--	--	--	ND	ND	ND	dry	--
	ug/L	10/23/97	--	--	--	ND	ND	ND	dry	--
	ug/L	04/28/98	--	--	--	ND	ND	ND	ND	--
	ug/L	03/15/05	--	--	500	ND	ND	ND	ND	--
	ug/L	07/12/05	--	--	500	ND	ND	ND	ND	ND
	ug/L	01/19/06	--	--	500	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	500	ND	ND	ND	ND	ND
	ug/L	01/17/07	0.2	10	100	35.5	44.8	51.9	34.9	0.3 J
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--
Cadmium	ug/L	09/16/93	--	--	--	ND	ND	1	dry	--
SW Standard = 2 ug/L	ug/L	09/20/93	--	--	--	1	ND	ND	dry	--
	ug/L	09/22/93	--	--	--	ND	ND	ND	dry	--
	ug/L	09/24/93	--	--	--	ND	ND	ND	dry	--
	ug/L	10/04/93	--	--	--	ND	ND	ND	dry	--
	ug/L	01/20/94	--	--	--	ND	ND	ND	ND	--
	ug/L	07/28/94	--	--	--	5	dry	ND	ND	--
	ug/L	01/26/95	--	--	--	ND	--	ND	ND	--
	ug/L	07/26/95	--	--	--	ND	ND	ND	dry	--
	ug/L	01/23/96	--	--	--	ND	ND	ND	dry	--
	ug/L	10/10/96	--	--	--	ND	ND	ND	dry	--
	ug/L	04/15/97	--	--	--	ND	ND	ND	dry	--
	ug/L	10/23/97	--	--	--	ND	ND	ND	dry	--
	ug/L	04/28/98	--	--	--	1.3	ND	ND	ND	--
	ug/L	03/15/05	--	--	1	ND	ND	ND	ND	--
	ug/L	07/12/05	--	--	1	ND	ND	ND	ND	ND
	ug/L	01/19/06	--	--	1	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	1	ND	ND	ND	ND	ND
	ug/L	01/17/07	0.5	1	1	ND	ND	ND	ND	ND
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--
Chromium	ug/L	09/16/93	--	--	--	ND	ND	10	dry	--
SW Standard = 50 ug/L	ug/L	09/20/93	--	--	--	ND	ND	ND	dry	--
	ug/L	09/22/93	--	--	--	ND	ND	10	dry	--
	ug/L	09/24/93	--	--	--	70	ND	70	dry	--
	ug/L	10/04/93	--	--	--	1	ND	ND	dry	--
	ug/L	01/20/94	--	--	--	ND	ND	ND	ND	--
	ug/L	07/28/94	--	--	--	ND	dry	ND	ND	--
	ug/L	01/26/95	--	--	--	ND	ND	ND	ND	--
	ug/L	07/26/95	--	--	--	ND	ND	ND	dry	--
	ug/L	01/23/96	--	--	--	ND	ND	ND	dry	--
	ug/L	10/10/96	--	--	--	ND	ND	ND	dry	--
	ug/L	04/15/97	--	--	--	ND	ND	ND	dry	--
	ug/L	10/23/97	--	--	--	ND	ND	ND	dry	--
	ug/L	04/28/98	--	--	--	ND	ND	ND	ND	--
	ug/L	10/28/98	--	--	10	ND	ND	dry	dry	--
	ug/L	04/07/99	--	--	10	ND	ND	ND	ND	--
	ug/L	12/08/99	--	--	10	ND	dry	ND	ND	--
	ug/L	04/27/00	--	--	10	ND	ND	ND	ND	--
	ug/L	10/18/00	--	--	10	ND	dry	ND	dry	--
	ug/L	04/18/01	--	--	10	ND	ND	ND	ND	--
	ug/L	10/24/01	--	--	10	ND	ND	ND	ND	--
	ug/L	04/23/02	--	--	10	ND	ND	ND	ND	--
	ug/L	10/23/02	--	--	10	ND	ND	ND	ND	--
	ug/L	04/01/03	--	--	10	ND	ND	ND	ND	--
	ug/L	10/27/03	--	--	10	ND	40	ND	dry	--
	ug/L	04/27/04	--	--	10	ND	40	ND	ND	--
	ug/L	10/26/04	--	--	10	ND	ND	ND	ND	--
	ug/L	03/15/05	--	--	10	ND	ND	ND	ND	ND
	ug/L	07/12/05	--	--	10	ND	ND	ND	ND	ND
	ug/L	01/19/06	--	--	10	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	10	ND	ND	ND	ND	ND
	ug/L	01/17/07	2	10	10	ND	3.3 J	ND	ND	ND
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--

TABLE 6

Summary of Surface Water Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituent/Parameter	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upstream SW-1	Downstream SW-2	Downstream SW-3	Downstream SW-4	Blanks
Cobalt	ug/L	09/16/93	--	--	--	ND	ND	ND	dry	--
(No SW Standard)	ug/L	09/20/93	--	--	--	ND	ND	ND	dry	--
	ug/L	09/22/93	--	--	--	ND	ND	ND	dry	--
	ug/L	09/24/93	--	--	--	ND	ND	ND	dry	--
	ug/L	10/04/93	--	--	--	ND	ND	ND	dry	--
	ug/L	01/20/94	--	--	--	ND	ND	ND	ND	--
	ug/L	07/28/94	--	--	--	ND	dry	ND	ND	--
	ug/L	01/26/95	--	--	--	ND	10	ND	ND	--
	ug/L	07/26/95	--	--	--	ND	ND	ND	dry	--
	ug/L	01/23/96	--	--	--	ND	ND	ND	dry	--
	ug/L	10/10/96	--	--	--	ND	ND	ND	dry	--
	ug/L	04/15/97	--	--	--	ND	ND	ND	dry	--
	ug/L	10/23/97	--	--	--	ND	ND	ND	dry	--
	ug/L	04/28/98	--	--	--	ND	ND	ND	ND	--
	ug/L	10/28/98	--	--	10	ND	ND	dry	dry	--
	ug/L	04/07/99	--	--	10	ND	ND	ND	ND	--
	ug/L	12/08/99	--	--	10	ND	dry	ND	ND	--
	ug/L	04/27/00	--	--	10	ND	ND	ND	ND	--
	ug/L	10/18/00	--	--	10	ND	dry	ND	dry	--
	ug/L	04/18/01	--	--	10	ND	ND	ND	ND	--
	ug/L	10/24/01	--	--	10	ND	ND	ND	ND	--
	ug/L	04/23/02	--	--	10	ND	ND	ND	ND	--
	ug/L	10/23/02	--	--	10	ND	ND	ND	ND	--
	ug/L	04/01/03	--	--	10	ND	ND	ND	ND	--
	ug/L	10/27/03	--	--	10	ND	10	ND	dry	--
	ug/L	04/27/04	--	--	10	ND	ND	ND	ND	--
	ug/L	10/26/04	--	--	10	ND	ND	ND	ND	--
	ug/L	03/15/05	--	--	10	ND	ND	ND	ND	ND
	ug/L	07/12/05	--	--	10	ND	ND	ND	ND	ND
	ug/L	01/19/06	--	--	10	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	10	ND	ND	ND	ND	ND
	ug/L	01/17/07	2	10	10	ND	ND	ND	ND	ND
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--
Copper	ug/L	09/16/93	--	--	--	ND	ND	ND	dry	--
SW Standard = 7 ug/L*	ug/L	09/20/93	--	--	--	ND	ND	30	dry	--
	ug/L	09/22/93	--	--	--	ND	ND	30	dry	--
	ug/L	09/24/93	--	--	--	20	ND	30	dry	--
	ug/L	10/04/93	--	--	--	ND	ND	ND	dry	--
	ug/L	01/20/94	--	--	--	ND	ND	ND	ND	--
	ug/L	07/28/94	--	--	--	ND	dry	ND	ND	--
	ug/L	01/26/95	--	--	--	ND	ND	ND	ND	--
	ug/L	07/26/95	--	--	--	ND	ND	ND	dry	--
	ug/L	01/23/96	--	--	--	ND	ND	ND	dry	--
	ug/L	10/10/96	--	--	--	ND	ND	ND	dry	--
	ug/L	04/15/97	--	--	--	ND	ND	ND	dry	--
	ug/L	10/23/97	--	--	--	ND	50	ND	dry	--
	ug/L	04/28/98	--	--	--	ND	ND	ND	ND	--
	ug/L	03/15/05	--	--	200	ND	ND	ND	ND	ND
	ug/L	07/12/05	--	--	200	ND	ND	ND	ND	ND
	ug/L	01/19/06	--	--	200	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	200	ND	ND	ND	ND	ND
	ug/L	01/17/07	0.6	10	10	ND	4.5 J	ND	ND	ND
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--
Lead	ug/L	09/16/93	--	--	--	ND	ND	31	dry	--
SW Standard = 25 ug/L*	ug/L	09/20/93	--	--	--	16	9	19	dry	--
	ug/L	09/22/93	--	--	--	7	ND	33	dry	--
	ug/L	09/24/93	--	--	--	36	ND	44	dry	--
	ug/L	10/04/93	--	--	--	9	ND	ND	dry	--
	ug/L	01/20/94	--	--	--	ND	ND	ND	ND	--
	ug/L	07/28/94	--	--	--	ND	dry	ND	ND	--
	ug/L	01/26/95	--	--	--	ND	ND	ND	ND	--
	ug/L	07/26/95	--	--	--	ND	ND	ND	dry	--
	ug/L	01/23/96	--	--	--	ND	ND	ND	dry	--
	ug/L	10/10/96	--	--	--	ND	ND	ND	dry	--
	ug/L	04/15/97	--	--	--	ND	ND	ND	dry	--
	ug/L	10/23/97	--	--	--	ND	ND	ND	dry	--
	ug/L	04/28/98	--	--	--	ND	ND	ND	ND	--
	ug/L	10/28/98	--	--	10	ND	ND	dry	dry	--
	ug/L	04/07/99	--	--	10	ND	ND	ND	ND	--
	ug/L	12/08/99	--	--	10	ND	dry	ND	ND	--
	ug/L	04/27/00	--	--	10	ND	ND	ND	ND	--
	ug/L	10/18/00	--	--	10	ND	dry	ND	dry	--
	ug/L	04/18/01	--	--	10	ND	ND	ND	ND	--
	ug/L	10/24/01	--	--	10	ND	ND	ND	ND	--
	ug/L	04/23/02	--	--	10	ND	ND	ND	ND	--
	ug/L	10/23/02	--	--	10	ND	ND	ND	ND	--
	ug/L	04/01/03	--	--	10	ND	ND	ND	ND	--
	ug/L	10/27/03	--	--	10	ND	30	ND	dry	--
	ug/L	04/27/04	--	--	10	ND	20	ND	ND	--
	ug/L	10/26/04	--	--	10	ND	ND	ND	ND	--
	ug/L	03/15/05	--	--	10	ND	ND	ND	ND	ND
	ug/L	07/12/05	--	--	10	ND	ND	ND	ND	ND
	ug/L	01/19/06	--	--	10	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	10	ND	ND	ND	ND	ND
	ug/L	01/17/07	2	10	10	ND	ND	2.7 J	ND	ND
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--

TABLE 6

Summary of Surface Water Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituent/Parameter	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upstream SW-1	Downstream SW-2	Downstream SW-3	Downstream SW-4	Blanks
Nickel	ug/L	09/16/93	--	--	--	ND	ND	ND	dry	--
SW Standard = 88 ug/L	ug/L	09/20/93	--	--	--	ND	ND	ND	dry	--
	ug/L	09/22/93	--	--	--	ND	ND	ND	dry	--
	ug/L	09/24/93	--	--	--	ND	ND	ND	dry	--
	ug/L	10/04/93	--	--	--	30	ND	ND	dry	--
	ug/L	01/20/94	--	--	--	ND	ND	ND	ND	--
	ug/L	07/28/94	--	--	--	ND	dry	ND	ND	--
	ug/L	01/26/95	--	--	--	ND	ND	ND	ND	--
	ug/L	07/26/95	--	--	--	ND	ND	ND	dry	--
	ug/L	01/23/96	--	--	--	ND	ND	ND	dry	--
	ug/L	10/10/96	--	--	--	ND	ND	ND	dry	--
	ug/L	04/15/97	--	--	--	ND	ND	ND	dry	--
	ug/L	10/23/97	--	--	--	ND	ND	ND	dry	--
	ug/L	04/28/98	--	--	--	ND	ND	ND	ND	--
	ug/L	10/28/98	--	--	50	ND	ND	dry	dry	--
	ug/L	04/07/99	--	--	50	ND	ND	ND	ND	--
	ug/L	12/08/99	--	--	50	50	dry	ND	ND	--
	ug/L	04/27/00	--	--	50	ND	ND	ND	ND	--
	ug/L	10/18/00	--	--	50	ND	dry	ND	dry	--
	ug/L	04/18/01	--	--	50	ND	ND	ND	ND	--
	ug/L	10/24/01	--	--	50	ND	ND	ND	ND	--
	ug/L	04/23/02	--	--	50	ND	ND	ND	ND	--
	ug/L	10/23/02	--	--	50	ND	ND	ND	ND	--
	ug/L	04/01/03	--	--	50	ND	ND	ND	ND	--
	ug/L	10/27/03	--	--	50	ND	ND	ND	dry	--
	ug/L	04/27/04	--	--	50	ND	ND	ND	ND	--
	ug/L	10/26/04	--	--	50	ND	ND	ND	ND	--
	ug/L	03/15/05	--	--	50	ND	ND	ND	ND	ND
	ug/L	07/12/05	--	--	50	ND	ND	ND	ND	ND
	ug/L	01/19/06	--	--	50	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	50	ND	ND	ND	ND	ND
	ug/L	01/17/07	2	10	50	ND	3.8 J	2.8 J	3.0 J	ND
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--
Selenium	ug/L	07/12/05	--	--	20	ND	ND	ND	ND	ND
SW Standard = 5 ug/L	ug/L	01/19/06	--	--	20	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	20	ND	ND	ND	ND	ND
	ug/L	01/17/07	2	10	10	ND	ND	3.4 J	ND	ND
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--
Silver	ug/L	09/16/93	--	--	--	ND	ND	ND	dry	--
SW Standard = 0.06 ug/L*	ug/L	09/20/93	--	--	--	ND	ND	ND	dry	--
	ug/L	09/22/93	--	--	--	ND	10	ND	dry	--
	ug/L	09/24/93	--	--	--	ND	ND	ND	dry	--
	ug/L	10/04/93	--	--	--	ND	ND	ND	dry	--
	ug/L	01/20/94	--	--	--	ND	ND	ND	ND	--
	ug/L	07/28/94	--	--	--	ND	dry	ND	ND	--
	ug/L	01/26/95	--	--	--	ND	ND	ND	ND	--
	ug/L	07/26/95	--	--	--	ND	ND	ND	dry	--
	ug/L	01/23/96	--	--	--	ND	ND	ND	dry	--
	ug/L	10/10/96	--	--	--	ND	ND	ND	dry	--
	ug/L	03/15/05	--	--	10	ND	ND	ND	ND	ND
	ug/L	07/12/05	--	--	10	ND	ND	ND	ND	ND
	ug/L	01/19/06	--	--	10	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	10	ND	ND	ND	ND	ND
	ug/L	01/17/07	2	10	10	ND	ND	ND	ND	ND
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--

TABLE 6

Summary of Surface Water Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituent/Parameter	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upstream SW-1	Downstream SW-2	Downstream SW-3	Downstream SW-4	Blanks
Vanadium	ug/L	09/16/93	--	--	--	ND	ND	40	dry	--
(No SW Standard)	ug/L	09/20/93	--	--	--	ND	ND	70	dry	--
	ug/L	09/22/93	--	--	--	30	ND	100	dry	--
	ug/L	09/24/93	--	--	--	280	ND	200	dry	--
	ug/L	10/04/93	--	--	--	ND	ND	ND	dry	--
	ug/L	01/20/94	--	--	--	ND	ND	ND	ND	--
	ug/L	07/28/94	--	--	--	ND	dry	ND	ND	--
	ug/L	01/26/95	--	--	--	ND	ND	ND	ND	--
	ug/L	07/26/95	--	--	--	ND	ND	ND	dry	--
	ug/L	01/23/96	--	--	--	ND	ND	ND	dry	--
	ug/L	10/10/96	--	--	--	ND	ND	ND	dry	--
	ug/L	04/15/97	--	--	--	ND	ND	ND	dry	--
	ug/L	10/23/97	--	--	--	ND	ND	ND	dry	--
	ug/L	04/28/98	--	--	--	ND	ND	ND	ND	--
	ug/L	10/28/98	--	--	40	ND	ND	dry	dry	--
	ug/L	04/07/99	--	--	40	ND	ND	ND	ND	--
	ug/L	12/08/99	--	--	40	ND	dry	ND	ND	--
	ug/L	04/27/00	--	--	40	ND	ND	ND	ND	--
	ug/L	10/18/00	--	--	40	ND	dry	ND	dry	--
	ug/L	04/18/01	--	--	40	ND	ND	ND	ND	--
	ug/L	10/24/01	--	--	40	ND	ND	ND	ND	--
	ug/L	04/23/02	--	--	40	ND	ND	ND	ND	--
	ug/L	10/23/02	--	--	40	ND	ND	ND	ND	--
	ug/L	04/01/03	--	--	40	ND	ND	ND	ND	--
	ug/L	10/27/03	--	--	40	ND	60	ND	dry	--
	ug/L	04/27/04	--	--	40	ND	60	ND	ND	--
	ug/L	10/26/04	--	--	40	ND	ND	ND	ND	--
	ug/L	03/15/05	--	--	40	ND	ND	ND	ND	ND
	ug/L	07/12/05	--	--	40	ND	ND	ND	ND	ND
	ug/L	01/19/06	--	--	40	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	40	ND	ND	ND	ND	ND
	ug/L	01/17/07	1	10	25	2.2 J	2.8 J	2.3 J	2.2 J	ND
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--
Zinc	ug/L	09/16/93	--	--	--	30	20	60	dry	--
SW Standard = 50 ug/L*	ug/L	09/20/93	--	--	--	130	40	120	dry	--
	ug/L	09/22/93	--	--	--	100	60	340	dry	--
	ug/L	09/24/93	--	--	--	240	70	420	dry	--
	ug/L	10/04/93	--	--	--	1000	190	70	dry	--
	ug/L	01/20/94	--	--	--	60	200	70	70	--
	ug/L	07/28/94	--	--	--	120	dry	ND	30	--
	ug/L	01/26/95	--	--	--	ND	30	60	60	--
	ug/L	07/26/95	--	--	--	ND	ND	ND	dry	--
	ug/L	01/23/96	--	--	--	ND	ND	ND	dry	--
	ug/L	10/10/96	--	--	--	ND	ND	ND	dry	--
	ug/L	04/15/97	--	--	--	80	60	60	dry	--
	ug/L	10/23/97	--	--	--	100	60	30	dry	--
	ug/L	04/28/98	--	--	--	50	ND	ND	ND	--
	ug/L	10/28/98	--	--	50	ND	ND	dry	dry	--
	ug/L	04/07/99	--	--	50	30	40	30	40	--
	ug/L	12/08/99	--	--	50	60	dry	50	60	--
	ug/L	04/27/00	--	--	50	ND	70	60	ND	--
	ug/L	10/18/00	--	--	50	50	dry	70	dry	--
	ug/L	04/18/01	--	--	50	ND	ND	ND	ND	--
	ug/L	10/24/01	--	--	50	ND	ND	ND	ND	--
	ug/L	04/23/02	--	--	50	ND	50	ND	ND	--
	ug/L	10/23/02	--	--	50	ND	60	ND	ND	--
	ug/L	04/01/03	--	--	50	60	30	50	70	--
	ug/L	10/27/03	--	--	50	ND	130	70	dry	--
	ug/L	04/27/04	--	--	50	ND	60	ND	ND	--
	ug/L	10/26/04	--	--	50	ND	ND	ND	ND	--
	ug/L	03/15/05	--	--	50	ND	ND	ND	ND	ND
	ug/L	07/12/05	--	--	50	100	ND	ND	ND	ND
	ug/L	01/19/06	--	--	50	ND	ND	79	ND	ND
	ug/L	07/12/06	--	--	50	ND	ND	ND	ND	ND
	ug/L	01/17/07	1	10	10	15.8 B	9.2 B	16.9 B	11.6 B	5.5 J
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--
Methyl Isobutyl Ketone	ug/l	09/24/93	--	--	--	150	ND	ND	dry	--
(No SW Standard)	ug/L	03/15/05	--	--	100	ND	ND	ND	ND	--
	ug/L	07/12/05	--	--	100	ND	ND	ND	ND	ND
	ug/L	01/19/06	--	--	10	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	100	ND	ND	ND	ND	ND
	ug/L	01/17/07	0.36	5	100	ND	ND	ND	ND	ND
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--

TABLE 6

Summary of Surface Water Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituent/Parameter	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upstream SW-1	Downstream SW-2	Downstream SW-3	Downstream SW-4	Blanks
Toluene	ug/L	10/23/97	--	--	--	ND	ND	20	dry	--
SW Standard = 11 ug/L	ug/L	10/28/98	--	--	5	ND	ND	dry	dry	--
	ug/L	04/07/99	--	--	5	ND	ND	ND	ND	--
	ug/L	12/08/99	--	--	5	ND	dry	ND	ND	--
	ug/L	04/27/00	--	--	5	ND	ND	ND	ND	--
	ug/L	10/18/00	--	--	5	ND	dry	ND	dry	--
	ug/L	04/18/01	--	--	5	ND	ND	ND	ND	--
	ug/L	10/24/01	--	--	5	ND	ND	ND	ND	--
	ug/L	04/23/02	--	--	5	ND	ND	ND	ND	--
	ug/L	10/23/02	--	--	5	ND	ND	ND	ND	--
	ug/L	04/01/03	--	--	5	ND	ND	ND	ND	--
	ug/L	10/27/03	--	--	5	ND	ND	ND	dry	--
	ug/L	04/27/04	--	--	5	ND	ND	ND	ND	--
	ug/L	10/26/04	--	--	5	ND	ND	ND	ND	--
	ug/L	03/15/05	--	--	5	ND	ND	ND	ND	ND
	ug/L	07/12/05	--	--	5	ND	ND	ND	ND	ND
	ug/L	01/19/06	--	--	5	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	5	ND	ND	ND	ND	ND
	ug/L	01/17/07	0.15	1	5	ND	ND	ND	ND	ND
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--
Xylenes (total)	ug/L	10/23/97	--	--	--	ND	ND	10	dry	--
(No SW Standard)	ug/L	10/28/98	--	--	5	ND	ND	dry	dry	--
	ug/L	04/07/99	--	--	5	ND	ND	ND	ND	--
	ug/L	12/08/99	--	--	5	ND	dry	ND	ND	--
	ug/L	04/27/00	--	--	5	ND	ND	ND	ND	--
	ug/L	10/18/00	--	--	5	ND	dry	ND	dry	--
	ug/L	04/18/01	--	--	5	ND	ND	ND	ND	--
	ug/L	10/24/01	--	--	5	ND	ND	ND	ND	--
	ug/L	04/23/02	--	--	5	ND	ND	ND	ND	--
	ug/L	10/23/02	--	--	5	ND	ND	ND	ND	--
	ug/L	04/01/03	--	--	5	ND	ND	ND	ND	--
	ug/L	10/27/03	--	--	5	ND	ND	ND	dry	--
	ug/L	04/27/04	--	--	5	ND	ND	ND	ND	--
	ug/L	10/26/04	--	--	5	ND	ND	ND	ND	--
	ug/L	03/15/05	--	--	5	ND	ND	ND	ND	ND
	ug/L	07/12/05	--	--	5	ND	ND	ND	ND	ND
	ug/L	01/19/06	--	--	5	ND	ND	ND	ND	ND
	ug/L	07/12/06	--	--	5	ND	ND	ND	ND	ND
	ug/L	01/17/07	0.21	2	NE	ND	ND	ND	ND	ND
	ug/L	07/09/07	--	--	--	dry	dry	dry	dry	--
pH (Field)	S.U.	10/28/98	--	--	--	7.05	5.47	dry	dry	--
	S.U.	04/07/99	--	--	--	5.26	7.18	6.22	6.74	--
	S.U.	12/08/99	--	--	--	5.04	dry	5.56	5.24	--
	S.U.	04/27/00	--	--	--	5.15	6.47	6.02	5.8	--
	S.U.	10/18/00	--	--	--	8.28	dry	6.07	dry	--
	S.U.	04/18/01	--	--	--	5.67	7.75	5.96	6.29	--
	S.U.	10/24/01	--	--	--	6.64	6.27	6.39	6.02	--
	S.U.	04/23/02	--	--	--	5.7	6.07	8.16	7.71	--
	S.U.	10/23/02	--	--	--	4.03	6.31	4.78	5.19	--
	S.U.	04/01/03	--	--	--	4.67	8.23	5.8	5.73	--
	S.U.	10/27/03	--	--	--	4.57	5.2	5.55	dry	--
	S.U.	04/27/04	--	--	--	4.88	6.12	5.77	6.62	--
	S.U.	10/26/04	--	--	--	5.82	6.04	5.62	5.57	--
	S.U.	03/15/05	--	--	--	4.51	5.96	5.63	5.67	--
	S.U.	07/13/05	--	--	--	5.55	6.18	5.83	5.38	--
	S.U.	01/19/06	--	--	--	3.54	7.25	5.49	4.51	--
	S.U.	07/12/06	--	--	--	7.10	6.07	5.88	5.65	--
	S.U.	01/17/07	--	--	--	4.57	4.20	5.36	5.26	--
	S.U.	07/09/07	--	--	--	dry	dry	dry	dry	--
Specific Conductance (Field)	uS/cm	10/28/98	--	--	1	50	109	dry	dry	--
	uS/cm	04/07/99	--	--	1	31.89	88.29	67	55.32	--
	uS/cm	12/08/99	--	--	1	29	dry	32	24	--
	uS/cm	04/27/00	--	--	1	26	143	48	31	--
	uS/cm	10/18/00	--	--	1	72	dry	136	dry	--
	uS/cm	04/18/01	--	--	1	21	75	48	28	--
	uS/cm	10/24/01	--	--	1	41	99	72	51	--
	uS/cm	04/23/02	--	--	1	64	79	80	43	--
	uS/cm	10/23/02	--	--	1	39	87	50	26	--
	uS/cm	04/01/03	--	--	1	35	121	42	45	--
	uS/cm	10/27/03	--	--	1	31	48	50	dry	--
	uS/cm	04/27/04	--	--	1	58	399	74	72	--
	uS/cm	10/26/04	--	--	1	62	190	88	40	--
	uS/cm	03/15/05	--	--	1	32	46	51	38	--
	uS/cm	07/13/05	--	--	1	64	155	141	76	--
	uS/cm	01/19/06	--	--	1	31	50	52	43	--
	uS/cm	07/12/06	--	--	1	50	200	97	101	--
	uS/cm	01/17/07	--	--	1	14	103	81	51	--
	uS/cm	07/09/07	--	--	1	dry	dry	dry	dry	--

TABLE 6

Summary of Surface Water Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituent/Parameter	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upstream SW-1	Downstream SW-2	Downstream SW-3	Downstream SW-4	Blanks
Temperature (Field)	°C	10/28/98	--	--	--	13	20.3	dry	dry	--
	°C	04/07/99	--	--	--	18.1	25.1	29.3	23.9	--
	°C	12/08/99	--	--	--	8.5	dry	11.5	10.6	--
	°C	04/27/00	--	--	--	13.1	14	13.6	12.6	--
	°C	10/18/00	--	--	--	18.1	dry	20.1	dry	--
	°C	04/18/01	--	--	--	9.2	7.3	8	9.1	--
	°C	10/24/01	--	--	--	19.3	23.8	25.9	24.9	--
	°C	04/23/02	--	--	--	18.7	16.3	26.2	25.4	--
	°C	10/23/02	--	--	--	13.5	12.2	12	12	--
	°C	04/01/03	--	--	--	15.4	21.6	26	24.2	--
	°C	10/27/03	--	--	--	18.6	20.1	20.8	dry	--
	°C	04/27/04	--	--	--	16.7	21.9	20.6	22.9	--
	°C	10/26/04	--	--	--	15.6	17.4	18.1	17.6	--
	°C	03/15/05	--	--	--	12.09	14.65	15.57	10.8	--
	°C	07/13/05	--	--	--	25.58	25.31	26.40	24.82	--
	°C	01/19/06	--	--	--	8.41	6.76	9.79	9.97	--
	°C	07/12/06	--	--	--	24.5	29.7	27.40	25.5	--
	°C	01/17/07	--	--	--	11.7	11.8	11.70	11.7	--
	°C	07/09/07	--	--	--	dry	dry	dry	dry	--
Turbidity (Field)	NTU	10/28/98	--	--	0.1	93	99	dry	dry	--
	NTU	04/07/99	--	--	0.1	4.37	16	58	20	--
	NTU	12/08/99	--	--	0.1	13	dry	50	143	--
	NTU	04/27/00	--	--	0.1	25	202	148	80	--
	NTU	10/18/00	--	--	0.1	20	dry	58	dry	--
	NTU	04/18/01	--	--	0.1	16.1	183	23	192	--
	NTU	10/24/01	--	--	0.1	38	44	78	94	--
	NTU	04/23/02	--	--	0.1	20	38	34	9.28	--
	NTU	10/23/02	--	--	0.1	23	292	75	179	--
	NTU	04/01/03	--	--	0.1	3.01	75	16	153	--
	NTU	10/27/03	--	--	0.1	37	780	2.33	dry	--
	NTU	04/27/04	--	--	0.1	18	750	16	11	--
	NTU	10/26/04	--	--	0.1	73	74	37	79	--
	NTU	03/15/05	--	--	0.1	24.8	64.3	41.7	274	--
	NTU	07/13/05	--	--	0.1	141	401	150	546	--
	NTU	01/19/06	--	--	0.1	62.5	33.2	0.0	242	--
	NTU	07/12/06	--	--	0.1	16.1	116	17.8	71.3	--
	NTU	01/17/07	--	--	0.1	1.5	32.8	28.0	121	--
	NTU	07/09/07	--	--	0.1	dry	dry	dry	dry	--
Oxidation Reduction Potential (Field)	mV	03/15/05	--	--	--	345	139	160	152	--
	mV	07/13/05	--	--	--	148	22	73	32	--
	mV	01/19/06	--	--	--	338	107	122	186	--
	mV	07/12/06	--	--	--	196	203	193	196	--
	mV	01/17/07	--	--	--	326	255	234	229	--
	mV	07/09/07	--	--	--	dry	dry	dry	dry	--
Dissolved Oxygen (Field)	mg/L	03/15/05	--	--	--	6.86	6.92	6.11	7.40	--
	mg/L	07/13/05	--	--	--	5.04	7.50	8.08	5.75	--
	mg/L	01/19/06	--	--	--	5.14	5.86	5.15	6.32	--
	mg/L	07/12/06	--	--	--	14.82	12.15	11.2	12.3	--
	mg/L	01/17/07	--	--	--	5.4	5.4	4.7	6.2	--
	mg/L	07/09/07	--	--	--	dry	dry	dry	dry	--

Notes:
mg/L = milligrams per liter
ug/L = micrograms per liter
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
ND = Not detected at the stated reporting limit
uS= microsiemens
mV = Millivolts
J = Estimated Value
B = Blank-Qualified Value
-- = no data
Blanks = field, trip and method blanks
Shaded = Concentrations above the NC 2L (Groundwater Protection) standards have been shaded
SW Standards= NC Freshwater Aquatic Life Standards as defined in 15A NCAC 2B
SWS Reporting Limit = NCPQL prior to 2007 and NCSWSL starting in 01/18/07

TABLE 7

Summary of Leachate Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Leachate	Blanks
Antimony	ug/L	07/13/05	--	--	30	ND	ND
	ug/L	01/20/06	--	--	30	ND	ND
	ug/L	07/12/06	--	--	30	ND	ND
	ug/L	01/18/07	0.58	2.00	6	5.08	ND
	ug/L	07/10/07	0.68	2.00	6	3.07 J	ND
Arsenic (Total)	ug/L	04/07/99	--	--	10	ND	--
	ug/L	12/08/99	--	--	10	10	--
	ug/L	04/27/00	--	--	10	10	--
	ug/L	10/18/00	--	--	10	--	--
	ug/L	11/28/00	--	--	10	--	--
	ug/L	01/03/01	--	--	10	--	--
	ug/L	02/08/01	--	--	10	--	--
	ug/L	04/19/01	--	--	10	--	--
	ug/L	12/24/01	--	--	10	--	--
	ug/L	04/23/02	--	--	10	--	--
	ug/L	10/23/02	--	--	10	--	--
	ug/L	04/01/03	--	--	10	--	--
	ug/L	09/02/03	--	--	10	--	--
	ug/L	10/28/03	--	--	10	--	--
	ug/L	04/27/04	--	--	10	--	--
	ug/L	10/26/04	--	--	10	--	--
	ug/L	03/15/05	--	--	10	21	ND
	ug/L	07/13/05	--	--	10	34	ND
	ug/L	01/20/06	--	--	10	24	ND
	ug/L	07/12/06	--	--	10	18.4	ND
	ug/L	01/18/07	2.0	10.0	10	ND	ND
	ug/L	07/10/07	2.0	10.0	10	ND	ND
Barium (Total)	ug/L	04/07/99	--	--	500	ND	--
	ug/L	12/08/99	--	--	500	ND	--
	ug/L	04/27/00	--	--	500	ND	--
	ug/L	10/18/00	--	--	500	--	--
	ug/L	11/28/00	--	--	500	--	--
	ug/L	01/03/01	--	--	500	--	--
	ug/L	02/08/01	--	--	500	--	--
	ug/L	04/19/01	--	--	500	--	--
	ug/L	12/24/01	--	--	500	--	--
	ug/L	04/23/02	--	--	500	--	--
	ug/L	10/23/02	--	--	500	--	--
	ug/L	04/01/03	--	--	500	--	--
	ug/L	09/02/03	--	--	500	--	--
	ug/L	10/28/03	--	--	500	--	--
	ug/L	04/27/04	--	--	500	--	--
	ug/L	10/26/04	--	--	500	--	--
	ug/L	03/15/05	--	--	500	630	ND
	ug/L	07/13/05	--	--	500	510	ND
	ug/L	01/20/06	--	--	500	883	ND
	ug/L	07/12/06	--	--	500	678	ND
	ug/L	01/18/07	0.20	10.0	100	624	ND
	ug/L	07/10/07	0.20	10.0	100	547	ND

TABLE 7

Summary of Leachate Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Leachate	Blanks
Cobalt (Total)	ug/L	04/07/99	--	--	10	10	--
	ug/L	12/08/99	--	--	10	60	--
	ug/L	04/27/00	--	--	10	10	--
	ug/L	10/18/00	--	--	10	--	--
	ug/L	11/28/00	--	--	10	--	--
	ug/L	01/03/01	--	--	10	--	--
	ug/L	02/08/01	--	--	10	--	--
	ug/L	04/19/01	--	--	10	--	--
	ug/L	12/24/01	--	--	10	--	--
	ug/L	04/23/02	--	--	10	--	--
	ug/L	10/23/02	--	--	10	--	--
	ug/L	04/01/03	--	--	10	--	--
	ug/L	09/02/03	--	--	10	--	--
	ug/L	10/28/03	--	--	10	--	--
	ug/L	04/27/04	--	--	10	--	--
	ug/L	10/26/04	--	--	10	--	--
	ug/L	03/15/05	--	--	10	43	ND
	ug/L	07/13/05	--	--	10	40	ND
	ug/L	01/20/06	--	--	10	60	ND
	ug/L	07/12/06	--	--	10	63.5	ND
	ug/L	01/18/07	2.0	10.0	10	16.1	ND
	ug/L	07/10/07	2.0	10.0	10	18.3	ND
Lead (Total)	ug/L	10/18/00	--	--	10	--	--
	ug/L	11/28/00	--	--	10	--	--
	ug/L	01/03/01	--	--	10	--	--
	ug/L	02/08/01	--	--	10	--	--
	ug/L	04/19/01	--	--	10	--	--
	ug/L	12/24/01	--	--	10	--	--
	ug/L	04/23/02	--	--	10	--	--
	ug/L	10/23/02	--	--	10	--	--
	ug/L	04/01/03	--	--	10	--	--
	ug/L	09/02/03	--	--	10	--	--
	ug/L	10/28/03	--	--	10	--	--
	ug/L	04/27/04	--	--	10	--	--
	ug/L	07/13/05	--	--	10	ND	ND
	ug/L	01/20/06	--	--	10	ND	ND
	ug/L	03/15/06	--	--	10	ND	ND
	ug/L	07/12/06	--	--	10	13.0	ND
	ug/L	10/26/06	--	--	10	--	--
	ug/L	01/18/07	2.0	10.0	10	ND	ND
	ug/L	07/10/07	2.0	10.0	10	ND	ND

TABLE 7

Summary of Leachate Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Leachate	Blanks
Nickel (Total)	ug/L	04/07/99	--	--	50	ND	--
	ug/L	12/08/99	--	--	50	30	--
	ug/L	04/27/00	--	--	50	50	--
	ug/L	10/18/00	--	--	50	--	--
	ug/L	11/28/00	--	--	50	--	--
	ug/L	01/03/01	--	--	50	--	--
	ug/L	02/08/01	--	--	50	--	--
	ug/L	04/19/01	--	--	50	--	--
	ug/L	12/24/01	--	--	50	--	--
	ug/L	04/23/02	--	--	50	--	--
	ug/L	10/23/02	--	--	50	--	--
	ug/L	04/01/03	--	--	50	--	--
	ug/L	09/02/03	--	--	50	--	--
	ug/L	10/28/03	--	--	50	--	--
	ug/L	04/27/04	--	--	50	--	--
	ug/L	10/26/04	--	--	50	--	--
	ug/L	03/15/05	--	--	50	85	ND
	ug/L	07/13/05	--	--	50	86	ND
	ug/L	01/20/06	--	--	50	74	ND
	ug/L	07/12/06	--	--	50	ND	ND
	ug/L	01/18/07	2.0	10.0	50	72.2	ND
	ug/L	07/10/07	2.0	10.0	50	75.8	ND
Thallium (Total)	ug/L	10/18/00	--	--	10	--	--
	ug/L	11/28/00	--	--	10	--	--
	ug/L	01/03/01	--	--	10	--	--
	ug/L	02/08/01	--	--	10	--	--
	ug/L	04/19/01	--	--	10	--	--
	ug/L	12/24/01	--	--	10	--	--
	ug/L	04/23/02	--	--	10	--	--
	ug/L	10/23/02	--	--	10	--	--
	ug/L	04/01/03	--	--	10	--	--
	ug/L	09/02/03	--	--	10	--	--
	ug/L	10/28/03	--	--	10	--	--
	ug/L	04/27/04	--	--	10	--	--
	ug/L	07/13/05	--	--	10	ND	ND
	ug/L	01/20/06	--	--	10	16	ND
	ug/L	03/15/06	--	--	10	ND	ND
	ug/L	07/12/06	--	--	10	22	ND
	ug/L	10/26/06	--	--	10	--	--
	ug/L	01/18/07	0.044	0.050	5.5	0.046 J	ND
	ug/L	07/10/07	0.036	0.050	6	ND	ND
Vanadium	ug/L	07/13/05	--	--	40	ND	ND
	ug/L	01/20/06	--	--	40	ND	ND
	ug/L	07/12/06	--	--	40	ND	ND
	ug/L	01/18/07	1.0	10.0	25	24.6	ND
	ug/L	07/10/07	1.0	10.0	25	39.7	ND

TABLE 7

Summary of Leachate Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Leachate	Blanks
Zinc (Total)	ug/L	04/07/99	--	--	50	50	--
	ug/L	12/08/99	--	--	50	160	--
	ug/L	04/27/00	--	--	50	30	--
	ug/L	10/18/00	--	--	50	--	--
	ug/L	11/28/00	--	--	50	--	--
	ug/L	01/03/01	--	--	50	--	--
	ug/L	02/08/01	--	--	50	--	--
	ug/L	04/19/01	--	--	50	--	--
	ug/L	12/24/01	--	--	50	--	--
	ug/L	04/23/02	--	--	50	--	--
	ug/L	10/23/02	--	--	50	--	--
	ug/L	04/01/03	--	--	50	--	--
	ug/L	09/02/03	--	--	50	--	--
	ug/L	10/28/03	--	--	50	--	--
	ug/L	04/27/04	--	--	50	--	--
	ug/L	10/26/04	--	--	50	--	--
	ug/L	03/15/05	--	--	50	120	ND
	ug/L	07/13/05	--	--	50	100	ND
	ug/L	01/20/06	--	--	50	63	ND
	ug/L	07/12/06	--	--	50	99.6	ND
	ug/L	01/18/07	1.0	10.0	10	22.1	4.8 J
	ug/L	07/10/07	1.0	10.0	10	37.5	ND
Acetone	ug/L	04/07/99	--	--	100	830	--
	ug/L	12/08/99	--	--	100	4300	--
	ug/L	04/27/00	--	--	100	2000	--
	ug/L	10/18/00	--	--	100	--	--
	ug/L	11/28/00	--	--	100	--	--
	ug/L	01/03/01	--	--	100	--	--
	ug/L	02/08/01	--	--	100	--	--
	ug/L	04/19/01	--	--	100	--	--
	ug/L	12/24/01	--	--	100	--	--
	ug/L	04/23/02	--	--	100	--	--
	ug/L	10/23/02	--	--	100	--	--
	ug/L	04/01/03	--	--	100	--	--
	ug/L	09/02/03	--	--	100	--	--
	ug/L	10/28/03	--	--	100	--	--
	ug/L	04/27/04	--	--	100	--	--
	ug/L	10/26/04	--	--	100	--	--
	ug/L	03/15/05	--	--	100	28000	ND
	ug/L	07/13/05	--	--	100	2000	ND
	ug/L	01/20/06	--	--	11000	11200	ND
	ug/L	07/12/06	--	--	100	4810	ND
	ug/L	01/18/07	0.90	5.0	100	13000	ND
	ug/L	07/10/07	4.5	25	100	27 J	ND

TABLE 7

Summary of Leachate Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Leachate	Blanks
Benzene	ug/L	04/07/99	--	--	5	ND	--
	ug/L	12/08/99	--	--	5	5	--
	ug/L	04/27/00	--	--	5	ND	--
	ug/L	10/18/00	--	--	5	--	--
	ug/L	11/28/00	--	--	5	--	--
	ug/L	01/03/01	--	--	5	--	--
	ug/L	02/08/01	--	--	5	--	--
	ug/L	04/19/01	--	--	5	--	--
	ug/L	12/24/01	--	--	5	--	--
	ug/L	04/23/02	--	--	5	--	--
	ug/L	10/23/02	--	--	5	--	--
	ug/L	04/01/03	--	--	5	--	--
	ug/L	09/02/03	--	--	5	--	--
	ug/L	10/28/03	--	--	5	--	--
	ug/L	04/27/04	--	--	5	--	--
	ug/L	10/26/04	--	--	5	--	--
	ug/L	03/15/05	--	--	500	ND	ND
	ug/L	07/13/05	--	--	5	ND	ND
	ug/L	01/20/06	--	--	550	ND	ND
	ug/L	07/12/06	--	--	5	ND	ND
	ug/L	01/18/07	0.12	1.0	3	ND	ND
	ug/L	07/10/07	0.60	5.0	1	2.0 J	ND
1,4-Dichlorobenzene	ug/L	04/07/99	--	--	5	ND	--
	ug/L	12/08/99	--	--	5	5	--
	ug/L	04/27/00	--	--	5	7	--
	ug/L	10/18/00	--	--	5	--	--
	ug/L	11/28/00	--	--	5	--	--
	ug/L	01/03/01	--	--	5	--	--
	ug/L	02/08/01	--	--	5	--	--
	ug/L	04/19/01	--	--	5	--	--
	ug/L	12/24/01	--	--	5	--	--
	ug/L	04/23/02	--	--	5	--	--
	ug/L	10/23/02	--	--	5	--	--
	ug/L	04/01/03	--	--	5	--	--
	ug/L	09/02/03	--	--	5	--	--
	ug/L	10/28/03	--	--	5	--	--
	ug/L	04/27/04	--	--	5	--	--
	ug/L	10/26/04	--	--	5	--	--
	ug/L	03/15/05	--	--	500	ND	ND
	ug/L	07/13/05	--	--	5	ND	ND
	ug/L	01/20/06	--	--	550	ND	ND
	ug/L	07/12/06	--	--	5	ND	ND
	ug/L	01/18/07	0.15	1.0	3	ND	ND
	ug/L	07/10/07	0.75	5.0	1	6.6	ND

TABLE 7

Summary of Leachate Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Leachate		Blanks
1,1-Dichloroethane	ug/L	04/07/99	--	--	5	9		--
	ug/L	12/08/99	--	--	5	9		--
	ug/L	04/27/00	--	--	5	ND		--
	ug/L	10/18/00	--	--	5	--		--
	ug/L	11/28/00	--	--	5	--		--
	ug/L	01/03/01	--	--	5	--		--
	ug/L	02/08/01	--	--	5	--		--
	ug/L	04/19/01	--	--	5	--		--
	ug/L	12/24/01	--	--	5	--		--
	ug/L	04/23/02	--	--	5	--		--
	ug/L	10/23/02	--	--	5	--		--
	ug/L	04/01/03	--	--	5	--		--
	ug/L	09/02/03	--	--	5	--		--
	ug/L	10/28/03	--	--	5	--		--
	ug/L	04/27/04	--	--	5	--		--
	ug/L	10/26/04	--	--	5	--		--
	ug/L	03/15/05	--	--	500	ND		ND
	ug/L	07/13/05	--	--	5	ND		ND
	ug/L	01/20/06	--	--	550	ND		ND
	ug/L	07/12/06	--	--	5	ND		ND
	ug/L	01/18/07	0.090	1.0	5	ND		ND
	ug/L	07/10/07	0.45	5.0	5	ND		ND
Ethylbenzene	ug/L	04/07/99	--	--	5	26		--
	ug/L	12/08/99	--	--	5	49		--
	ug/L	04/27/00	--	--	5	35		--
	ug/L	10/18/00	--	--	5	--		--
	ug/L	11/28/00	--	--	5	--		--
	ug/L	01/03/01	--	--	5	--		--
	ug/L	02/08/01	--	--	5	--		--
	ug/L	04/19/01	--	--	5	--		--
	ug/L	12/24/01	--	--	5	--		--
	ug/L	04/23/02	--	--	5	--		--
	ug/L	10/23/02	--	--	5	--		--
	ug/L	04/01/03	--	--	5	--		--
	ug/L	09/02/03	--	--	5	--		--
	ug/L	10/28/03	--	--	5	--		--
	ug/L	04/27/04	--	--	5	--		--
	ug/L	10/26/04	--	--	5	--		--
	ug/L	03/15/05	--	--	500	ND		ND
	ug/L	07/13/05	--	--	5	ND		ND
	ug/L	01/20/06	--	--	550	ND		ND
	ug/L	07/12/06	--	--	5	ND		ND
	ug/L	01/18/07	0.17	1.0	5	35	J	ND
	ug/L	07/10/07	0.85	5.0	1	15		ND
2-Hexanone	ug/L	07/13/05	--	--	50	ND		ND
	ug/L	01/20/06	--	--	5500	ND		ND
	ug/L	07/12/06	--	--	50	ND		ND
	ug/L	01/18/07	0.24	5.0	50	17	J	ND
	ug/L	07/10/07	1.2	25	50	ND		ND

TABLE 7

Summary of Leachate Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Leachate	Blanks
Methylene chloride	ug/L	04/07/99	--	--	10	68	--
	ug/L	12/08/99	--	--	10	21	--
	ug/L	04/27/00	--	--	10	ND	--
	ug/L	10/18/00	--	--	10	--	--
	ug/L	11/28/00	--	--	10	--	--
	ug/L	01/03/01	--	--	10	--	--
	ug/L	02/08/01	--	--	10	--	--
	ug/L	04/19/01	--	--	10	--	--
	ug/L	12/24/01	--	--	10	--	--
	ug/L	04/23/02	--	--	10	--	--
	ug/L	10/23/02	--	--	10	--	--
	ug/L	04/01/03	--	--	10	--	--
	ug/L	09/02/03	--	--	10	--	--
	ug/L	10/28/03	--	--	10	--	--
	ug/L	04/27/04	--	--	10	--	--
	ug/L	10/26/04	--	--	10	--	--
	ug/L	03/15/05	--	--	1000	ND	ND
	ug/L	07/13/05	--	--	10	ND	ND
	ug/L	01/20/06	--	--	1100	ND	ND
	ug/L	07/12/06	--	--	10	ND	ND
	ug/L	01/18/07	0.088	2.0	5.5	ND	ND
	ug/L	07/10/07	0.44	5.0	1	ND	ND
2-Butanone	ug/L	04/07/99	--	--	100	660	--
(Methyl Ethyl Ketone:MEK)	ug/L	12/08/99	--	--	100	12000	--
	ug/L	04/27/00	--	--	100	4400	--
	ug/L	10/18/00	--	--	100	--	--
	ug/L	11/28/00	--	--	100	--	--
	ug/L	01/03/01	--	--	100	--	--
	ug/L	02/08/01	--	--	100	--	--
	ug/L	04/19/01	--	--	100	--	--
	ug/L	12/24/01	--	--	100	--	--
	ug/L	04/23/02	--	--	100	--	--
	ug/L	10/23/02	--	--	100	--	--
	ug/L	04/01/03	--	--	100	--	--
	ug/L	09/02/03	--	--	100	--	--
	ug/L	10/28/03	--	--	100	--	--
	ug/L	04/27/04	--	--	100	--	--
	ug/L	10/26/04	--	--	100	--	--
	ug/L	03/15/05	--	--	100	34000	ND
	ug/L	07/13/05	--	--	100	1800	ND
	ug/L	01/20/06	--	--	11000	16600	ND
	ug/L	07/12/06	--	--	100	7870	ND
	ug/L	01/18/07	0.56	5.0	100	7300	ND
	ug/L	07/10/07	2.8	25	100	ND	ND

TABLE 7

Summary of Leachate Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Leachate		Blanks	
4-Methyl-2-pentanone	ug/L	04/07/99	--	--	100	ND		--	
	ug/L	12/08/99	--	--	100	ND		--	
	ug/L	04/27/00	--	--	100	110		--	
	ug/L	10/18/00	--	--	100	--		--	
	ug/L	11/28/00	--	--	100	--		--	
	ug/L	01/03/01	--	--	100	--		--	
	ug/L	02/08/01	--	--	100	--		--	
	ug/L	04/19/01	--	--	100	--		--	
	ug/L	12/24/01	--	--	100	--		--	
	ug/L	04/23/02	--	--	100	--		--	
	ug/L	10/23/02	--	--	100	--		--	
	ug/L	04/01/03	--	--	100	--		--	
	ug/L	09/02/03	--	--	100	--		--	
	ug/L	10/28/03	--	--	100	--		--	
	ug/L	04/27/04	--	--	100	--		--	
	ug/L	10/26/04	--	--	100	--		--	
	ug/L	03/15/05	--	--	10000	ND		ND	
	ug/L	07/13/05	--	--	100	ND		ND	
	ug/L	01/20/06	--	--	11000	ND		ND	
	ug/L	07/12/06	--	--	100	ND		ND	
	ug/L	01/18/07	0.36	5.0	100	95	J	ND	
	ug/L	07/10/07	1.8	25	100	7.4	J	ND	
Tetrachloroethene	ug/L	07/13/05	--	--	5	ND		ND	
	ug/L	01/20/06	--	--	550	ND		ND	
	ug/L	07/12/06	--	--	5	ND		ND	
	ug/L	01/18/07	0.25	1.0	3	ND		ND	
	ug/L	07/10/07	1.2	5.0	1	ND		0.31	J
Toluene	ug/L	04/07/99	--	--	5	100		--	
	ug/L	12/08/99	--	--	5	150		--	
	ug/L	04/27/00	--	--	5	120		--	
	ug/L	10/18/00	--	--	5	--		--	
	ug/L	11/28/00	--	--	5	--		--	
	ug/L	01/03/01	--	--	5	--		--	
	ug/L	02/08/01	--	--	5	--		--	
	ug/L	04/19/01	--	--	5	--		--	
	ug/L	12/24/01	--	--	5	--		--	
	ug/L	04/23/02	--	--	5	--		--	
	ug/L	10/23/02	--	--	5	--		--	
	ug/L	04/01/03	--	--	5	--		--	
	ug/L	09/02/03	--	--	5	--		--	
	ug/L	10/28/03	--	--	5	--		--	
	ug/L	04/27/04	--	--	5	--		--	
	ug/L	10/26/04	--	--	5	--		--	
	ug/L	03/15/05	--	--	500	ND		ND	
	ug/L	07/13/05	--	--	5	ND		ND	
	ug/L	01/20/06	--	--	550	ND		ND	
	ug/L	07/12/06	--	--	5	255		ND	
	ug/L	01/18/07	0.15	1.0	5	36	J	ND	
	ug/L	07/10/07	0.75	5.0	1	9.0		ND	
Trichloroethene	ug/L	07/13/05	--	--	5	ND		ND	
	ug/L	01/20/06	--	--	550	ND		ND	

TABLE 7

Summary of Leachate Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Leachate	Blanks
	ug/L	07/12/06	--	--	5	ND	ND
	ug/L	01/18/07	0.23	1.0	3	ND	ND
	ug/L	07/10/07	1.2	5.0	1	ND	1
Xylenes (total)	ug/L	04/07/99	--	--	5	30	--
	ug/L	12/08/99	--	--	5	62	--
	ug/L	04/27/00	--	--	5	56	--
	ug/L	10/18/00	--	--	5	--	--
	ug/L	11/28/00	--	--	5	--	--
	ug/L	01/03/01	--	--	5	--	--
	ug/L	02/08/01	--	--	5	--	--
	ug/L	04/19/01	--	--	5	--	--
	ug/L	12/24/01	--	--	5	--	--
	ug/L	04/23/02	--	--	5	--	--
	ug/L	10/23/02	--	--	5	--	--
	ug/L	04/01/03	--	--	5	--	--
	ug/L	09/02/03	--	--	5	--	--
	ug/L	10/28/03	--	--	5	--	--
	ug/L	04/27/04	--	--	5	--	--
	ug/L	10/26/04	--	--	5	--	--
	ug/L	03/15/05	--	--	500	ND	ND
	ug/L	07/13/05	--	--	5	ND	ND
	ug/L	01/20/06	--	--	550	ND	ND
	ug/L	07/12/06	--	--	5	ND	ND
	ug/L	01/18/07	0.14	3.0	--	60 J	ND
	ug/L	07/10/07	1.0	5.0	4	22	ND
Oil & Grease	mg/L	01/20/06	--	--	2	5	ND
	mg/L	07/12/06	--	--	2	19	ND
	mg/L	01/18/07	2	2	--	5	ND
	mg/L	07/10/07	3	5	--	ND	ND
Phenols	mg/L	03/15/05	--	--	0.05	0.84	ND
	mg/L	01/20/06	--	--	0.2	1	ND
	mg/L	07/12/06	--	--	0.1	1	ND
	mg/L	01/18/07	0.01	0.05	--	0.92	ND
	mg/L	07/10/07	0.02	0.05	--	0.03 J	ND
Total Kjeldahl Nitrogen	mg/L	03/15/05	--	--	0.05	480	ND
	mg/L	01/20/06	--	--	1	495	ND
	mg/L	07/12/06	--	--	0.05	396	ND
	mg/L	01/18/07	4.0	5.0	--	440	ND
	mg/L	07/10/07	22	25	--	570	ND
Nitrate	mg/L	07/13/05	--	--	0.1	ND	ND
	mg/L	01/20/06	--	--	0.05	ND	ND
	mg/L	07/12/06	--	--	0.05	ND	ND
	mg/L	07/10/07	0.0066	0.10	--	ND	ND
Sulfate	mg/L	07/13/05	--	--	2	ND	ND
	mg/L	01/20/06	--	--	2	ND	ND
	mg/L	07/12/06	--	--	2	6.23	ND
	mg/L	01/18/07	0.60	5.00	--	29.3	2.25 J
	mg/L	07/10/07	0.60	5.0	--	34	1.1
Biological Oxygen Demand	mg/L	03/15/05	--	--	2	1300	ND
	mg/L	07/13/05	--	--	2	220 J	ND
	mg/L	01/20/06	--	--	2	1910	ND

TABLE 7

Summary of Leachate Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Leachate	Blanks
	mg/L	07/12/06	--	--	2	1770	ND
	mg/L	01/18/07	2	2	--	593	ND
	mg/L	07/10/07	2.0	2.0	--	97	ND

TABLE 7

Summary of Leachate Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Leachate	Blanks
Chemical Oxygen Demand	mg/L	03/15/05	--	--	10	2500	ND
	mg/L	07/13/05	--	--	10	1120	ND
	mg/L	01/20/06	--	--	--	--	--
	mg/L	02/27/06	--	--	40	1710	ND
	mg/L	07/12/06	--	--	10	2990	ND
	mg/L	01/18/07	10	10	--	1810	ND
	mg/L	07/10/07	10	10	--	980	ND
Total Suspended Solids	mg/L	03/15/05	--	--	2	140	ND
	mg/L	07/13/05	--	--	--	--	--
	mg/L	01/20/06	--	--	--	--	--
	mg/L	07/12/06	--	--	2	264	ND
	mg/L	01/18/07	1	1	--	45	ND
	mg/L	07/10/07	1.0	1.0	--	21	ND
Phosphorus (Total)	mg/L	03/15/05	--	--	0.03	1.8	ND
	mg/L	07/13/05	--	--	0.03	2.2	ND
	mg/L	01/20/06	--	--	0.1	2	ND
	mg/L	07/12/06	--	--	0.03	1	ND
	mg/L	01/18/07	0.020	0.030	--	1.7	ND
	mg/L	07/10/07	0.020	0.030	--	2.8	ND
pH (Field)	S.U.	04/07/99	--	--	--	6.82	--
	S.U.	03/15/05	--	--	--	6.34	--
	S.U.	07/13/05	--	--	--	7.36	--
	S.U.	01/20/06	--	--	--	9.48	--
	S.U.	07/12/06	--	--	--	7.22	--
	S.U.	01/18/07	--	--	--	6.00	--
	S.U.	07/10/07	--	--	--	8.31	--
Specific Conductance (Field)	mmhos/cm	04/07/99	--	--	1	2061	--
	mmhos/cm	03/15/05	--	--	--	6310	--
	mS/cm	07/13/05	--	--	--	14.5	--
	mS/cm	01/20/06	--	--	--	4940	--
	mS/cm	07/12/06	--	--	--	7.94	--
	mS/cm	01/18/07	--	--	--	3.40	--
	mS/cm	07/10/07	--	--	--	9.80	--
Temperature (Field)	°C	03/15/05	--	--	--	12.8	--
	°C	07/13/05	--	--	--	28.82	--
	°C	01/20/06	--	--	--	16.07	--
	°C	07/12/06	--	--	--	30.0	--
	°C	01/18/07	--	--	--	7.0	--
	°C	07/10/07	--	--	--	33.2	--

Notes:
mg/L = milligrams per liter
ug/L = micrograms per liter
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
ND = Not detected at the stated reporting limit
uS= microsiemens
mV = Millivolts
J = Estimated value/not quantified
-- = no data
Blanks = field, trip and method blanks
The following dilutions were noted for the 07/10/2007 event: VOCs 5x

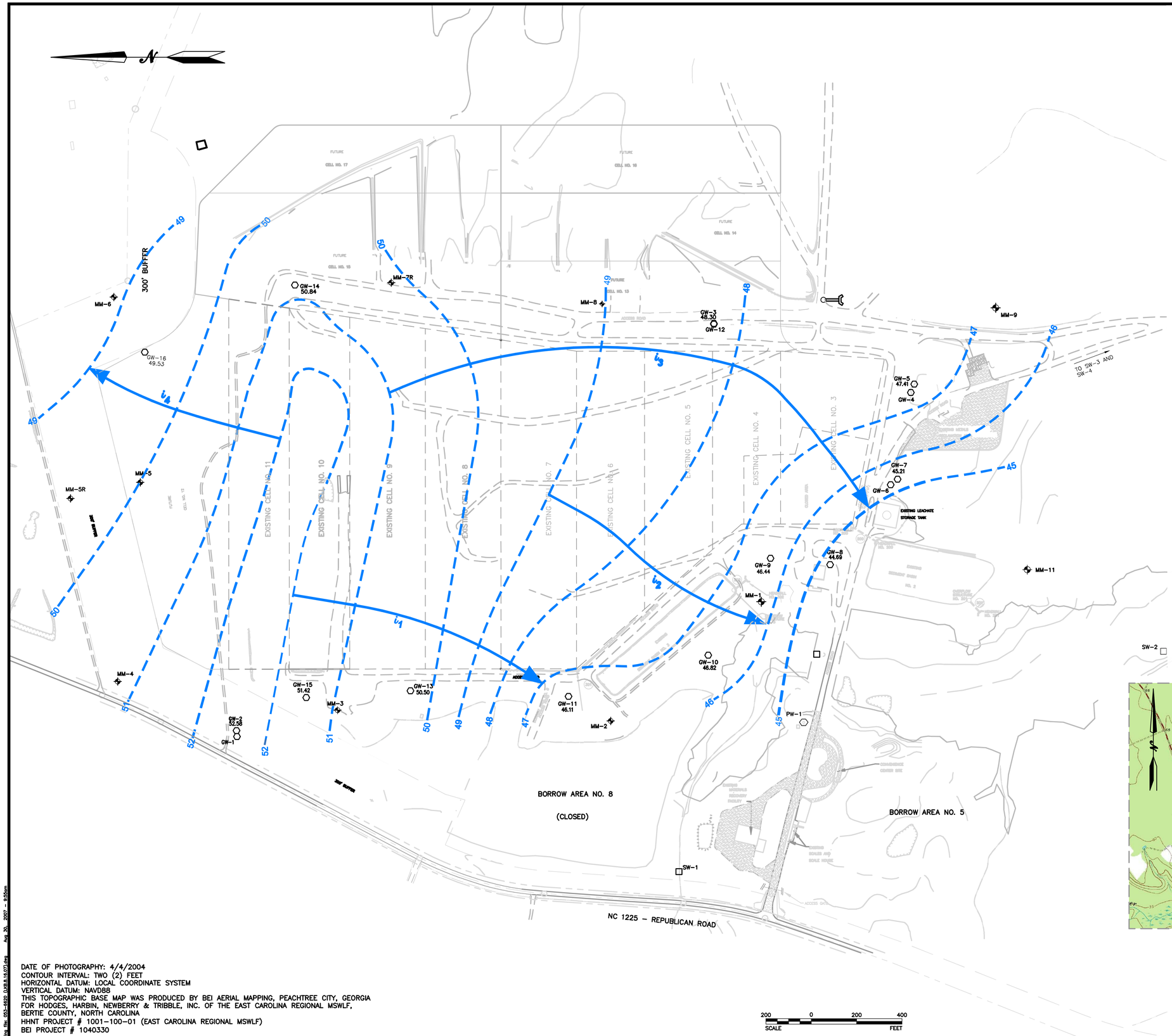
TABLE 7

Summary of Leachate Monitoring Results
Detected Constituents
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Reporting Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Leachate	Blanks

SWS Reporting Limit = NCPQL prior to 2007 and NCSWSL starting in 01/18/07

DRAWING

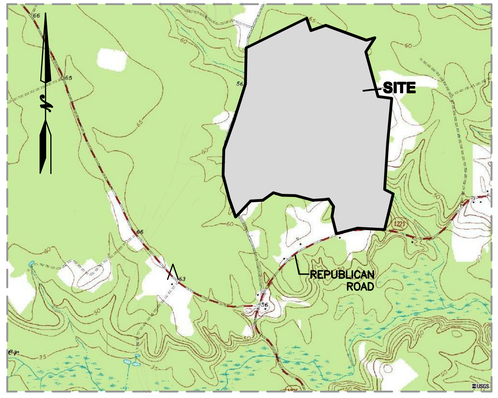


NOTES:

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET.
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 1 FOOT.
3. GROUNDWATER ELEVATIONS MEASURED ON JULY 9–10, 2007.
4. GROUNDWATER CONTOURS ARE BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS.
5. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL. THE GROUNDWATER FLOW DIRECTION IS GENERALLY PERPENDICULAR TO THE GROUNDWATER SURFACE CONTOURS, SIMILAR TO THE RELATIONSHIP BETWEEN SURFACE WATER FLOW AND TOPOGRAPHIC CONTOURS.
6. MONITORING WELLS GW–1, GW–4, GW–5 AND GW–12 ARE SCREENED IN IN THE LOWER BLACK CREEK FORMATION AND GROUNDWATER ELEVATION DATA WERE NOT USED IN THE CONSTRUCTION OF CONTOURS.
7. THE LOCATION OF PW–1 IS APPROXIMATE.

LEGEND

EXISTING CONTOUR	
PROPERTY BOUNDARY	
100' BUFFER	
LIMITS OF WASTE	
GROUNDWATER SURFACE CONTOURS	48
APPROXIMATE GROUNDWATER FLOW SEGMENT USED TO CALCULATE GRADIENT	L4
GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION	GW–2 52.58
SURFACE WATER MONITORING POINT	SW–1
METHANE MONITORING WELL	MM–1
PRIVATE WATER SUPPLY WELL	PW–1



SITE LOCATION MAP

1.0 0 1.0
SCALE MILE
(SCALE IS APPROXIMATE)

200 0 200 400
SCALE FEET

DATE OF PHOTOGRAPHY: 4/4/2004
CONTOUR INTERVAL: TWO (2) FEET
HORIZONTAL DATUM: LOCAL COORDINATE SYSTEM
VERTICAL DATUM: NAVD88
THIS TOPOGRAPHIC BASE MAP WAS PRODUCED BY BEI AERIAL MAPPING, PEACHTREE CITY, GEORGIA FOR HODGES, HARGIN, NEWBERRY & TRIBBLE, INC. OF THE EAST CAROLINA REGIONAL MSWLF, BERTIE COUNTY, NORTH CAROLINA
HHNT PROJECT # 1001–100–01 (EAST CAROLINA REGIONAL MSWLF)
BEI PROJECT # 1040330

Golder Associates
GOLDER ASSOCIATES INC, INC.

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
4	08/14/07	LKB	UPDATE GROUNDWATER CONTOURS	LKB	BD	RPK
3	01/31/07	LKB	UPDATE GROUNDWATER CONTOURS	JCB	DYR	RPK
2	08/02/06	JCB	UPDATE GROUNDWATER CONTOURS	JCB	DYR	RPK
1	03/17/06	JCB	UPDATE GROUNDWATER CONTOURS	JCB	RPK	RPK
0	09/05	JCB	UPDATE GROUND WATER CONTOURS	CADD	CHK	RVW

PROJECT
EAST CAROLINA REGIONAL MSW LANDFILL
REPUBLIC SERVICES OF NORTH CAROLINA, LLC
BERTIE COUNTY, NORTH CAROLINA

TITLE
JULY 9-10, 2007
YORKTOWN FORMATION
GROUNDWATER CONTOUR MAP

PROJECT No.	053–6620	
FILE No.	0536620A01	
REV.	SCALE	AS SHOWN
DESIGN	DYR	08/17/07
CADD	LKB	08/17/07
CHECK		
REVIEW		

DWG. 01

APPENDIX I

GROUNDWATER, SURFACE WATER, AND LEACHATE SAMPLING LOGS

DATE: 07/09/07

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: East Carolina LDF
Project No./Phase No.: 053-6620007.100
Well ID: GW-2
Sampler(s): B. Draper/K. Higgs
Well Diameter: 2 inches
Initial Depth to Water: 13.78 feet
Depth to Bottom: 30.00 feet
Water Column Thickness: 16.22 feet
Well Location: Front side of landfill next to road inside gate.
Equipment: Horiba water quality meter, dedicated bladder pump, WL indicator, air compressor, control box, air tanks

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
12:14	4.42	0.139	0.0	6.1	17.15	354	14.32
12:16	4.31	0.136	0.0	6.1	17.07	359	14.12
12:18	4.32	0.134	0.0	6.2	17.05	369	14.17
12:20	4.31	0.134	0.0	6.3	17.09	371	14.14
Sampled at 12:20							
12:23	4.42	0.133	0.0	6.1	17.47	366	14.14

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Purge Rate: 400 mL/min
System Volume: 1100 mL
Weather Conditions: 7-9-2007 - Sunny, High 91°F, Breezy 5-8 mph (SSW)

Signature: [signature] **Date:** 7-9-2007
QA/QC Sign Off: [signature] **Date:** 8-29-07

Golder Associates

DATE: 07/09/07

GROUNDWATER SAMPLING LOG

Project Name: East Carolina LDF
Project No./Phase No.: 053-6620007.100
Well ID: GW-7
Sampler(s): B. Draper/K. Higgs
Well Diameter: 2 inches
Initial Depth to Water: 13.58 feet
Depth to Bottom: 18.00 feet
Water Column Thickness: 4.42 feet
Well Location: Next to leachate tanks.
Equipment: Horiba water quality meter, dedicated bladder pump, WL indicator, air compressor, control box, air tanks

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
14:40	4.34	0.263	0.0	3.6	17.93	407	13.61
14:42	4.17	0.268	0.0	3.3	17.96	418	13.61
14:44	4.17	0.268	0.0	3.3	17.77	432	13.61
14:46	4.18	0.268	0.0	3.2	17.81	431	13.61
Sampled at 14:46							
14:51	4.26	0.267	0.0	3.2	17.67	431	13.61

Comments (weather conditions, color, type of sample, purge-water management, etc.):

Purge Rate: 400mL/min

System Volume: 860 mL

Weather Conditions: 7-9-2007 - Sunny, High 91°F, Breezy 5-8 mph (SSW)

Signature: [signature] **Date:** 7-9-2007

QA/QC Sign Off: [signature] **Date:** 8-29-07

Golder Associates

DATE: 07/09/07

GROUNDWATER SAMPLING LOG

Project Name: East Carolina LDF
Project No./Phase No.: 053-6620007.100
Well ID: GW-8
Sampler(s): B. Draper/K. Higgs
Well Diameter: 2 inches
Initial Depth to Water: 15.35 feet
Depth to Bottom: 18.00 feet
Water Column Thickness: 2.65 feet
Well Location: Next to maintenance shop.
Equipment: Horiba water quality meter, dedicated bladder pump, WL indicator, air compressor, control box, air tanks

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
15:09	4.96	0.133	0.0	2.5	17.9	377	15.62
15:11	4.95	0.136	0.0	1.6	17.7	374	15.76
15:13	4.89	0.134	0.0	1.4	17.75	362	15.69
15:15	4.94	0.135	0.0	1.1	17.45	342	15.65
15:17	4.97	0.136	0.0	0.9	17.93	318	15.71
15:19	5.00	0.133	0.0	0.9	17.53	309	15.65
Sampled at 15:19							
15:28	5.01	0.135	0.0	3.4	18.01	299	15.75

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Purge Rate: 400 mL/min
System Volume: 960 mL
Weather Conditions: 7-9-2007 - Sunny, High 91°F, Breezy 5-8 mph (SSW)

Signature: [signature] **Date:** 7-9-2007
QA/QC Sign Off: [signature] **Date:** 8-29-07

DATE: 07/09/07

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: East Carolina LDF
Project No./Phase No.: 053-6620007.100
Well ID: GW-9
Sampler(s): B. Draper/K. Higgs
Well Diameter: 2 inches
Initial Depth to Water: 5.50 feet
Depth to Bottom: 13.00 feet
Water Column Thickness: 7.50 feet
Well Location: Between maintenance shop & sediment pond.
Equipment: Horiba water quality meter, dedicated bladder pump, WL indicator, air compressor, control box, air tanks

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
15:38	5.25	0.116	413.0	1.9	19.13	200	6.10
15:40	5.24	0.109	270.0	2.0	19.19	202	6.20
15:42	5.24	0.114	117.0	1.7	19.1	200	6.20
15:44	5.23	0.115	44.0	1.6	18.9	203	6.20
15:46	5.20	0.115	21.0	1.6	18.9	204	6.20
Sampled at 15:46							
15:50	5.31	0.110	0.0	5.7	19.36	205	6.2

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Purge Rate: 350 mL/min
System Volume: 760 mL
Weather Conditions: 7-9-2007 - Sunny, High 91°F, Breezy 5-8 mph (SSW)

Signature: [signature] **Date:** 7-9-2007
QA/QC Sign Off: [signature] **Date:** 8-29-07

Golder Associates

DATE: 07/09/07

GROUNDWATER SAMPLING LOG

Project Name: East Carolina LDF
Project No./Phase No.: 053-6620007.100
Well ID: GW-10
Sampler(s): B. Draper/K. Higgs
Well Diameter: 2 inches
Initial Depth to Water: 6.40 feet
Depth to Bottom: 20 feet
Water Column Thickness: 15.4 feet
Well Location: Behind sediment pond.
Equipment: Horiba water quality meter, dedicated bladder pump, WL indicator, air compressor, control box, air tanks

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
16:13	6.29	0.118	0.0	3.1	19.91	69	6.5
16:15	6.20	0.112	0.0	2.5	17.37	80	6.50
16:17	6.1	0.111	0.0	2.4	17.13	81	6.51
16:19	6.08	0.109	0.0	2.3	17.0	81	6.60
Sampled at 16:19							
16:25	6.34	0.105	65.8	7.80	17.23	78	6.60

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Purge Rate: 400 mL/min
System Volume: 900 mL
Weather Conditions: 7-9-2007 - Sunny, High 91°F, Breezy 5-8 mph (SSW)

Signature: [signature] **Date:** 7-9-2007
QA/QC Sign Off: [signature] **Date:** 8-29-07

DATE: 07/10/07

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: East Carolina LDF **Project No./Phase No.:** 053-6620007.100
Well ID: GW-11 **Sampler(s):** B. Draper/K. Higgs
Well Diameter: 2 inches **Initial Depth to Water:** 26.31 feet
Depth to Bottom: 29.30 feet **Water Column Thickness:** 2.99 feet
Well Location: Next to access road past sediment pond.
Equipment: Horiba water quality meter, dedicated bladder pump, WL indicator, air compressor, control box, air tanks

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
8.:15	5.49	0.048	0.0	3.6	18.06	257	26.31
8:17	5.16	0.049	0.0	3.1	17.89	271	26.31
8:19	5.09	0.05	0.0	3.0	17.73	278	26.52
8:21	4.96	0.053	0.0	2.6	17.74	283	26.81
8:23	4.98	0.055	0.0	2.7	17.72	285	27.01
8:25	4.98	0.054	0.0	2.7	17.75	290	27.1
Sampled at 8:25							
8:31	4.99	0.051	0.0	3.4	18.23	282	27.25

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Purge Rate: 400 mL/min
System Volume: 1086 mL
Weather Conditions: 7-10-2007 - Cloudy, High 91°F, Breezy 5-8 mph (SSW)

Signature: [signature] **Date:** 7-10-2007
QA/QC Sign Off: [signature] **Date:** 8-29-07

Golder Associates

DATE: 07/10/07

GROUNDWATER SAMPLING LOG

Project Name: East Carolina LDF
Project No./Phase No.: 053-6620007.100
Well ID: GW-13
Sampler(s): B. Draper/K. Higgs
Well Diameter: 2 inches
Initial Depth to Water: 24.26 feet
Depth to Bottom: 41.60 feet
Water Column Thickness: 17.34 feet
Well Location: Next to access road past GW-11.
Equipment: Horiba water quality meter, dedicated bladder pump, WL indicator, air compressor, control box, air tanks

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
8:53	4.82	0.090	0.0	7.1	18.04	339	24.29
8:55	4.67	0.090	0.0	6.9	17.89	344	24.25
8:57	4.64	0.090	0.0	6.8	17.9	349	24.34
8:59	4.65	0.089	0.0	6.8	17.8	352	21.3
Sampled at 8:59							
9:04	4.68	0.090	0.0	6.5	18.19	343	24.33

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Purge Rate: 400 mL/min
System Volume: 1320 mL
Weather Conditions: 7-10-2007 - Cloudy, High 91°F, Breezy 5-8 mph (SSW)

Signature: [signature] **Date:** 7-10-2007
QA/QC Sign Off: [signature] **Date:** 8-29-07

DATE: 07/09/07

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: East Carolina LDF
Project No./Phase No.: 053-6620007.100
Well ID: GW-14
Sampler(s): B. Draper/K. Higgs
Well Diameter: 2 inches
Initial Depth to Water: 27.90 feet
Depth to Bottom: 48.00 feet
Water Column Thickness: 20.10 feet
Well Location: Next to access road up on hill (backside of LF).
Equipment: Horiba water quality meter, dedicated bladder pump, WL indicator, air compressor, control box, air tanks

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
13:53	5.21	0.042	0	2.0	19.87	224	26.61
13:55	5.1	0.042	0.0	1.5	19.64	247	26.63
13:57	5.06	0.044	0.0	1.3	19.58	254	26.65
13:59	5.1	0.045	0.0	1.1	19.33	243	26.65
14:01	5.11	0.045	0.0	1.0	19.31	235	26.68
14:03	5.12	0.044	0.0	1.0	19.16	226	26.62
Sampled at 14:03							
14:07	5.17	0.043	0.0	2.9	20.99	218	26.68

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Purge Rate: 300 mL/min
System Volume: 1460 mL
Weather Conditions: 7-9-2007 - Sunny, High 91°F, Breezy 5-8 mph (SSW)

Signature: [signature] **Date:** 7-9-2007
QA/QC Sign Off: [signature] **Date:** 8-29-07

DATE: 07/09/07

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: East Carolina LDF
Project No./Phase No.: 053-6620007.100
Well ID: GW-15
Sampler(s): B. Draper/K. Higgs
Well Diameter: 2 inches
Initial Depth to Water: 26.81 feet
Depth to Bottom: 39.05 feet
Water Column Thickness: 12.24 feet
Well Location: Next to access road past GW-13.
Equipment: Horiba water quality meter, dedicated bladder pump, WL indicator, air compressor, control box, air tanks

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
12:47	4.95	0.094	0.0	7.4	19.40	314	27.04
12:49	4.89	0.093	0.0	7.1	18.60	328	27.04
12:51	4.88	0.093	0.0	7.0	18.67	331	27.04
12:53	4.84	0.092	0.0	7.0	18.61	328	27.04
Sampled at 12:53							
12:58	4.85	0.090	0.0	7.2	18.88	329	27.04

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Purge Rate: 400 mL/min
System Volume: 1300 mL
Weather Conditions: 7-9-2007 - Sunny, High 91°F, Breezy 5-8 mph (SSW)

Signature: [signature] **Date:** 7-9-2007
QA/QC Sign Off: [signature] **Date:** 8-29-07

Golder Associates

DATE: 07/09/07

GROUNDWATER SAMPLING LOG

Project Name: East Carolina LDF
Project No./Phase No.: 053-6620007.100
Well ID: GW-16
Sampler(s): B. Draper/K. Higgs
Well Diameter: 2 inches
Initial Depth to Water: 13.49 feet
Depth to Bottom: 23.00 feet
Water Column Thickness: 9.51 feet
Well Location: Across drainage from access road (backside of LF).
Equipment: Horiba water quality meter, dedicated bladder pump, WL indicator, air compressor, control box, air tanks

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
13:22	4.91	0.025	35.0	3.0	19.75	321	13.5
13:24	4.76	0.021	2.7	2.5	18.80	326	13.52
13:26	4.77	0.022	0.0	2.8	18.84	528	13.58
13:28	4.76	0.023	0.0	2.8	18.50	330	13.58
13:30	4.72	0.023	0.0	2.8	18.35	331	13.58
Sampled at 13:30							
13:34	4.78	0.022	0.0	2.9	18.33	331	13.58

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Purge Rate: 400 mL/min
System Volume: 960 mL
Weather Conditions: 7-9-2007 - Sunny, High 91°F, Breezy 5-8 mph (SSW)

Signature: [signature] **Date:** 7-9-2007
QA/QC Sign Off: [signature] **Date:** 8-29-07

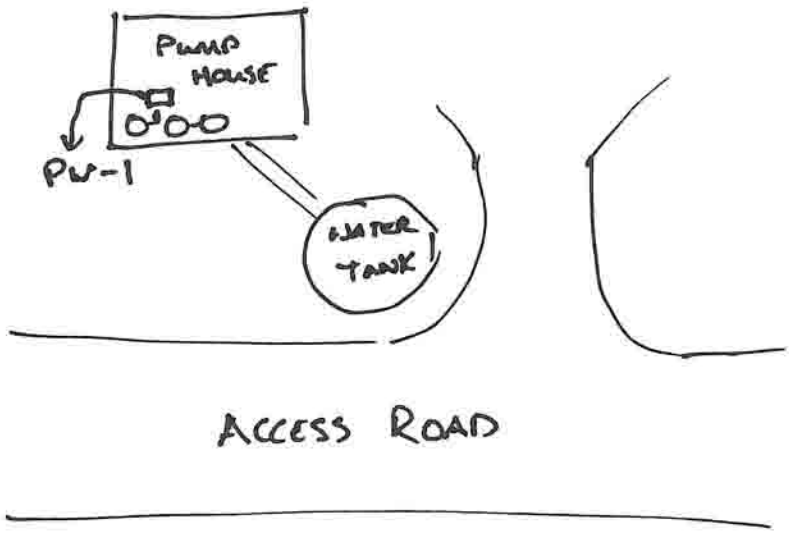
DATE: 07/10/07

WATER SAMPLING LOG

Project Name: East Carolina LF **Project No./Phase No.:** 053-6620007.100
Sample ID: PW-1 **Sampler(s):** B.Draper/K. Higgs
Sampling Location: Tap inside well house.
Equipment: Horiba water quality meter

Time	10:24
pH s.u.	7.64
Cond. mS/cm	0.52
Turb. ntu	0.0
Dis. O2 mg/L	---
Temp. oC	21.3
TDS Sal	---
ORP mv	---

Sample Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
Purged system to ground for 10 minutes, sampled directly from pressure tank inside of well house.
Weather Conditions: 7-10-2007 - Cloudy, High 91°F, Breezy 5-8 mph (SSW)

Signature: Date: 7-10-2007
QA/QC Sign Off: Date: 8-29-07

DATE: 07/10/07

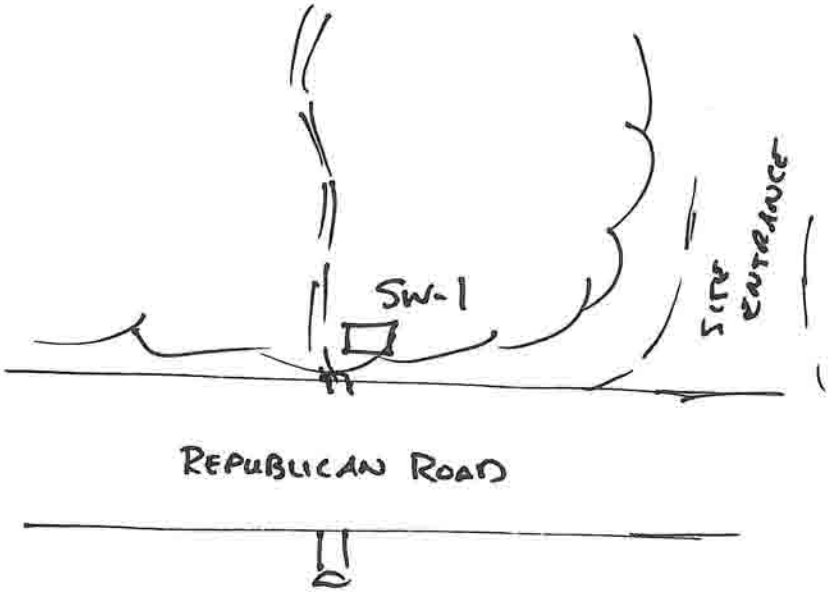
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: East Carolina LF **Project No./Phase No.:** 053-6620007.100
Sample ID: SW-1 **Sampler(s):** B.Draper/K. Higgs
Sampling Location: Drainage off the side of Republican Road.
Equipment: Horiba water quality meter

Time	10:34
pH s.u.	---
Cond. mS/cm	---
Turb. ntu	---
Dis. O2 mg/L	---
Temp. oC	---
TDS Sal	---
ORP mv	---

Surface Water Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
Dry, no sample

Weather Conditions: 7-10-2007 - Cloudy, High 91°F, Breezy 5-8 mph (SSW)

Signature: Date: 7-10-2007
QA/QC Sign Off: Date: 8-29-07

DATE: 07/10/07

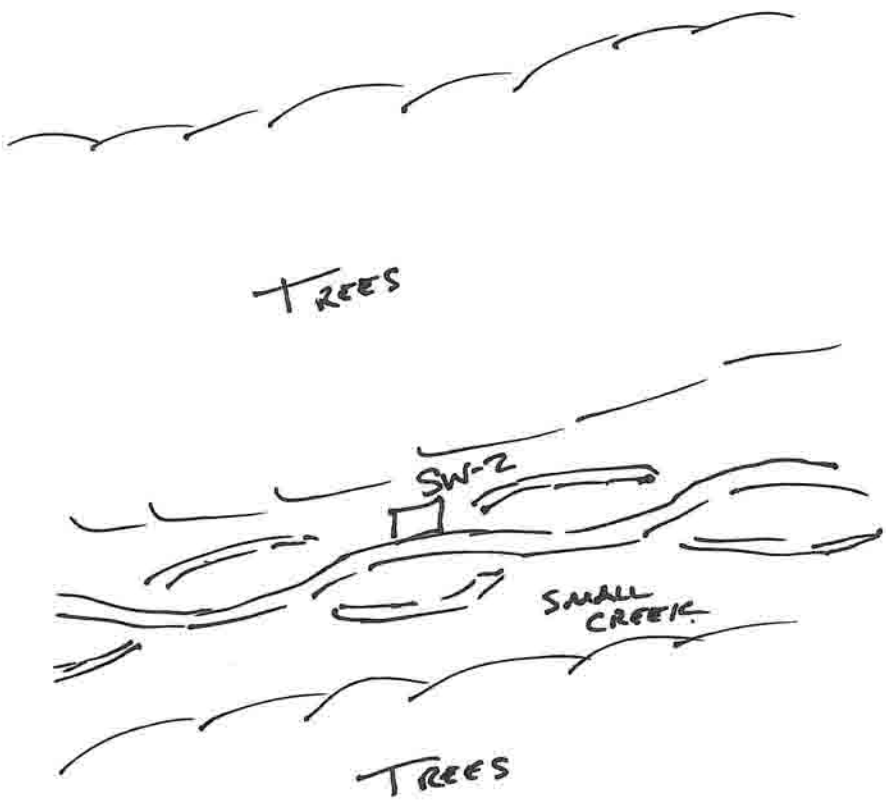
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: East Carolina LF **Project No./Phase No.:** 053-6620007.100
Sample ID: SW-2 **Sampler(s):** B.Draper/K. Higgs
Sampling Location: Back in the woods behind leachate tanks, follow flagging.
Equipment: Horiba water quality meter

Time	9:35
pH s.u.	---
Cond. mS/cm	---
Turb. ntu	---
Dis. O2 mg/L	---
Temp. oC	---
TDS Sal	---
ORP mv	---

Surface Water Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
Dry- No sample

Weather Conditions: 7-10-2007 - Cloudy, High 91°F, Breezy 5-8 mph (SSW)

Signature: Date: 7-10-2007
QA/QC Sign Off: Date: 8-29-07

DATE: 07/10/07

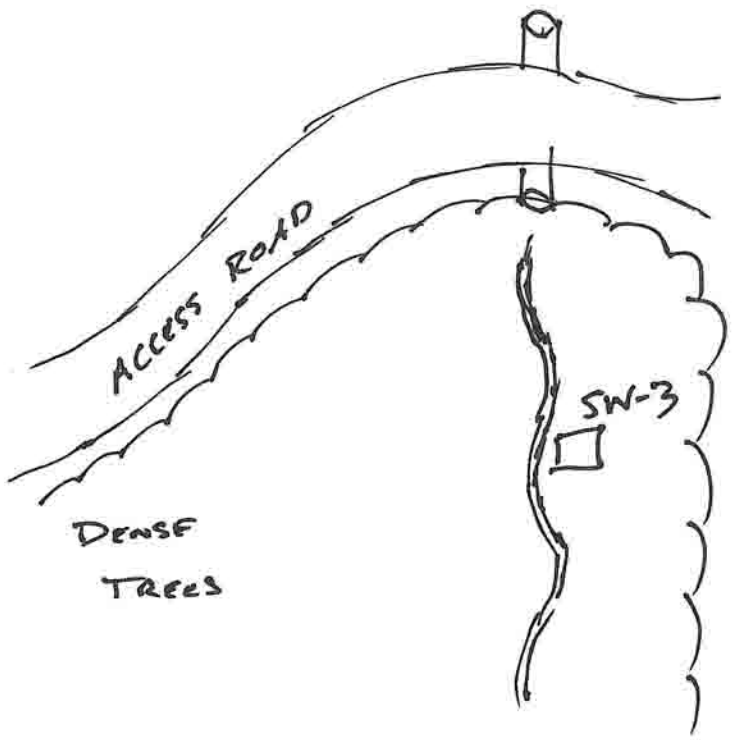
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: East Carolina LF **Project No./Phase No.:** 053-6620007.100
Sample ID: SW-3 **Sampler(s):** B.Draper/K. Higgs
Sampling Location: At end of dirt road between borrow areas.
Equipment: Horiba water quality meter

Time	9:48
pH s.u.	---
Cond. mS/cm	---
Turb. ntu	---
Dis. O2 mg/L	---
Temp. oC	---
TDS Sal	---
ORP mv	---

Surface Water Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
Dry, no sample

Weather Conditions: 7-10-2007 - Cloudy, High 91°F, Breezy 5-8 mph (SSW)

Signature: [signature] Date: 7-10-2007
QA/QC Sign Off: [signature] Date: 8-29-07

DATE: 07/10/07

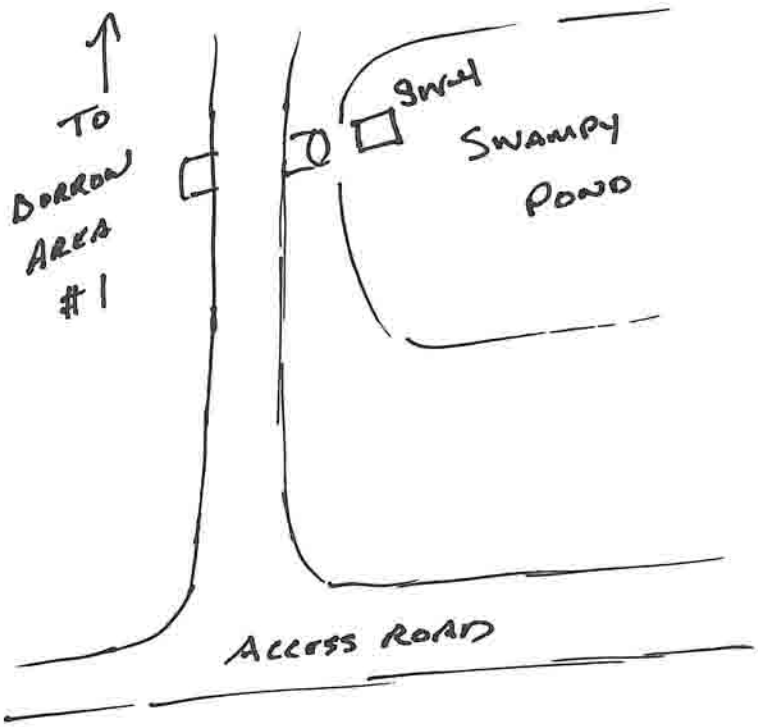
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: East Carolina LF **Project No./Phase No.:** 053-6620007.100
Sample ID: SW-4 **Sampler(s):** B.Draper/K. Higgs
Sampling Location: Left down dirt road next to borrow area #1.
Equipment: Horiba water quality meter

Time	10:05
pH s.u.	---
Cond. mS/cm	---
Turb. ntu	---
Dis. O2 mg/L	---
Temp. oC	---
TDS Sal	---
ORP mv	---

Surface Water Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
Dry, no sample

Weather Conditions: 7-10-2007 - Cloudy, High 91°F, Breezy 5-8 mph (SSW)

Signature: [signature] Date: 7-10-2007
QA/QC Sign Off: Nanie Kair Date: 8-28-07

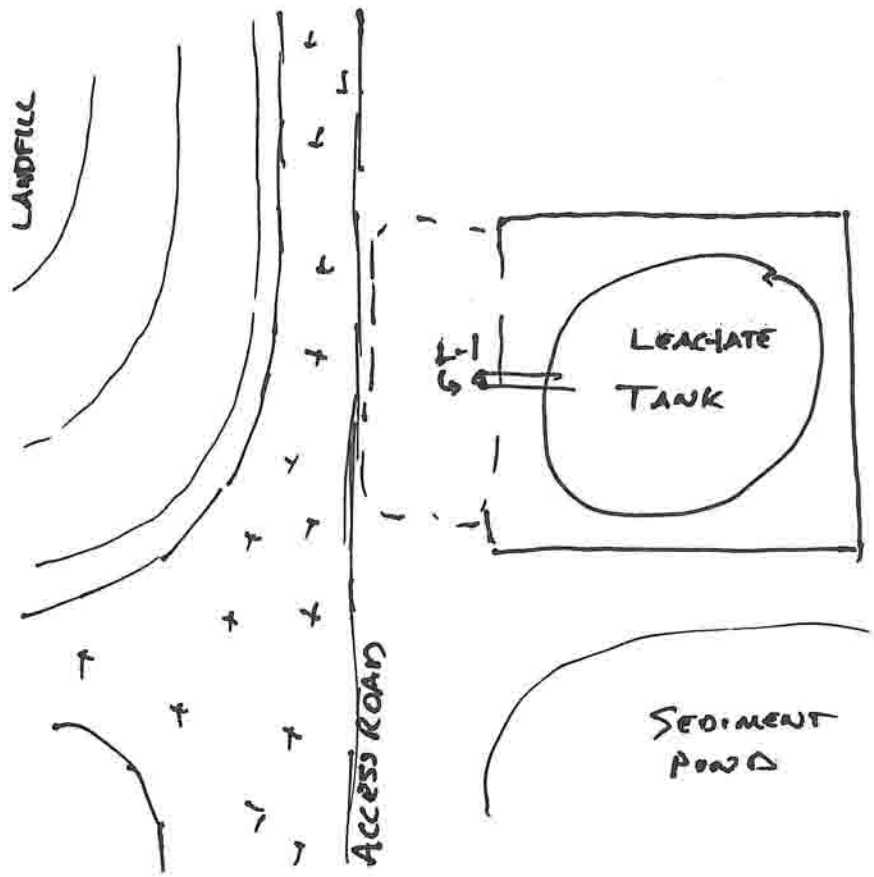
DATE: 07/10/07

LEACHATE SAMPLING LOG

Project Name: East Carolina LF **Project No./Phase No.:** 053-6620007.100
Sample ID: L-1 **Sampler(s):** B.Draper/K. Higgs
Sampling Location: Left down dirt road next to borrow area #1.
Equipment: Horiba water quality meter

Time	10:51
pH s.u.	8.31
Cond. mS/cm	9.80
Turb. ntu	19.6
Dis. O2 mg/L	---
Temp. oC	33.2
TDS Sal	---
ORP mv	---

Surface Water Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):

Weather Conditions: 7-10-2007 - Cloudy, High 91°F, Breezy 5-8 mph (SSW)

Signature: Date: 7-10-2007
QA/QC Sign Off: Marie Kin Date: 8-29-07

APPENDIX II

JANUARY 2007 CERTIFICATES-OF-ANALYSIS, CHAIN-OF-CUSTODY FORMS AND LABORATORY DATA REVIEWS

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

www.encolabs.com

Thursday, July 26, 2007

RECEIVED JUL 30 2007

Golder Associates, Inc. (GO007)
Attn: Rachel Kirkman
The Wingate Building 4900 Koger Blvd., Suite 140
Greensboro, NC 27407

RE: Project Number: 053-6620.007.100, Project Name/Desc: Republic-East Carolina Landfill
ENCO Workorder: C709032

Dear Rachel Kirkman,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, July 10, 2007.

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.

This data has been produced in accordance with NELAC standards (June, 2003). 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. 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

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 54.

CASE NARRATIVE

Date: July 26, 2007
Client: Golder Associates
Project #: Republic - East Carolina Landfill
Lab ID: C709032

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by Environmental Conservation Laboratories, Inc. will be discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

VGCMS Toluene was found in the trip blank. This detection was verified. The associated method blank was clean. At this time, Environmental Conservation Laboratories is investigating to determine if this contamination originated in the laboratory or the containers.

Other Comments

The samples were not checked for residual chlorine as it is not required for groundwater analyses.

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

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 0803-GW2 **Lab ID:** C709032-01
Sampled: 07/09/07 12:20 **Received:** 07/10/07 14:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	01/05/08	07/11/07 14:31	7/23/2007 11:36
EPA 6020	01/05/08	07/12/07 13:44	7/13/2007 12:50
EPA 8260B	07/23/07	07/20/07 12:35	7/20/2007 20:35

Client ID: 0803-GW7 (MS/MSD) **Lab ID:** C709032-02
Sampled: 07/09/07 14:46 **Received:** 07/10/07 14:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	01/05/08	07/11/07 14:31	7/23/2007 10:09
EPA 6020	01/05/08	07/12/07 13:44	7/13/2007 12:27
EPA 8260B	07/23/07	07/20/07 12:35	7/20/2007 15:17

Client ID: 0803-GW8 **Lab ID:** C709032-03
Sampled: 07/09/07 15:19 **Received:** 07/10/07 14:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	01/05/08	07/11/07 14:31	7/23/2007 11:42
EPA 6020	01/05/08	07/16/07 12:27	7/17/2007 12:21
EPA 8260B	07/23/07	07/20/07 12:35	7/20/2007 21:01

Client ID: 0803-GW9 **Lab ID:** C709032-04
Sampled: 07/09/07 15:40 **Received:** 07/10/07 14:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	01/05/08	07/11/07 14:31	7/23/2007 11:49
EPA 6020	01/05/08	07/16/07 12:27	7/17/2007 12:28
EPA 8260B	07/23/07	07/20/07 12:35	7/20/2007 21:28

Client ID: 0803-GW10 **Lab ID:** C709032-05
Sampled: 07/09/07 16:19 **Received:** 07/10/07 14:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	01/05/08	07/11/07 14:31	7/23/2007 11:56
EPA 6020	01/05/08	07/16/07 12:27	7/17/2007 12:31
EPA 8260B	07/23/07	07/20/07 12:35	7/20/2007 21:54

Client ID: 0803-GW11 **Lab ID:** C709032-06
Sampled: 07/10/07 08:25 **Received:** 07/10/07 14:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	01/06/08	07/11/07 14:31	7/23/2007 12:03
EPA 6020	01/06/08	07/16/07 12:27	7/17/2007 12:33
EPA 8260B	07/24/07	07/20/07 12:35	7/20/2007 22:21

Client ID: 0803-GW13 **Lab ID:** C709032-07
Sampled: 07/10/07 08:59 **Received:** 07/10/07 14:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	01/06/08	07/11/07 14:31	7/23/2007 12:10
EPA 6020	01/06/08	07/16/07 12:27	7/17/2007 12:36
EPA 8260B	07/24/07	07/20/07 12:35	7/20/2007 22:47

Client ID: 0803-GW14 **Lab ID:** C709032-08
Sampled: 07/09/07 14:03 **Received:** 07/10/07 14:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	01/05/08	07/11/07 14:31	7/23/2007 12:17
EPA 6020	01/05/08	07/16/07 12:27	7/17/2007 12:38
EPA 8260B	07/23/07	07/20/07 12:35	7/20/2007 23:13

Client ID: 0803-GW15 **Lab ID:** C709032-09
Sampled: 07/09/07 12:53 **Received:** 07/10/07 14:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	01/05/08	07/11/07 14:31	7/23/2007 12:24
EPA 6020	01/05/08	07/16/07 12:27	7/17/2007 12:45
EPA 8260B	07/23/07	07/20/07 12:35	7/20/2007 23:39

Client ID: 0803-GW16 **Lab ID:** C709032-10

Sampled: 07/09/07 13:30 **Received:** 07/10/07 14:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	01/05/08	07/11/07 14:31	7/23/2007 12:31
EPA 6020	01/05/08	07/16/07 12:27	7/17/2007 12:48
EPA 8260B	07/23/07	07/20/07 13:06	7/21/2007 04:28

Client ID: 0803-PW1 **Lab ID:** C709032-11

Sampled: 07/10/07 10:24 **Received:** 07/10/07 14:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	01/06/08	07/11/07 14:31	7/23/2007 12:56
EPA 6020	01/06/08	07/16/07 12:27	7/17/2007 12:50
EPA 8260B	07/24/07	07/20/07 13:06	7/21/2007 04:54

Client ID: 0803-Field Blank **Lab ID:** C709032-16

Sampled: 07/10/07 11:17 **Received:** 07/10/07 14:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	01/06/08	07/11/07 14:31	7/23/2007 13:03
EPA 6020	01/06/08	07/16/07 12:27	7/17/2007 12:53
EPA 8260B	07/24/07	07/20/07 13:06	7/21/2007 05:20

Client ID: 0803-Trip Blank **Lab ID:** C709032-17

Sampled: 07/10/07 00:00 **Received:** 07/10/07 14:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	07/24/07	07/20/07 13:06	7/21/2007 05:46

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 0803-GW2 — **Lab ID: C709032-01**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	448		1	0.20	10.0	100	ug/L	EPA 6010B
Beryllium	0.70	J	1	0.70	1.00	1	ug/L	EPA 6010B
Cobalt	10.0		1	2.0	10.0	10	ug/L	EPA 6010B
Lead	2.3	J	1	2.0	10.0	10	ug/L	EPA 6010B
Nickel	6.0	J	1	2.0	10.0	50	ug/L	EPA 6010B
Thallium	0.065	J	1	0.036	0.050	5.5	ug/L	EPA 6020
Trichloroethene	0.47	J	1	0.23	1.0	1	ug/L	EPA 8260B
Zinc	8.3	J	1	1.0	10.0	10	ug/L	EPA 6010B

Client ID: 0803-GW7 (MS/MSD) — **Lab ID: C709032-02**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	162		1	0.20	10.0	100	ug/L	EPA 6010B
Beryllium	1.90		1	0.70	1.00	1	ug/L	EPA 6010B
Cobalt	37.5		1	2.0	10.0	10	ug/L	EPA 6010B
Copper	5.40	J	1	0.60	10.0	10	ug/L	EPA 6010B
Lead	2.9	J	1	2.0	10.0	10	ug/L	EPA 6010B
Nickel	9.1	J	1	2.0	10.0	50	ug/L	EPA 6010B
Thallium	0.050	J	1	0.036	0.050	5.5	ug/L	EPA 6020
Zinc	21.5		1	1.0	10.0	10	ug/L	EPA 6010B

Client ID: 0803-GW8 — **Lab ID: C709032-03**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Arsenic	2.1	J	1	2.0	10.0	10	ug/L	EPA 6010B
Barium	121		1	0.20	10.0	100	ug/L	EPA 6010B
Cobalt	2.9	J	1	2.0	10.0	10	ug/L	EPA 6010B
Lead	2.9	J	1	2.0	10.0	10	ug/L	EPA 6010B
Nickel	3.8	J	1	2.0	10.0	50	ug/L	EPA 6010B
Thallium	0.058	J	1	0.036	0.050	5.5	ug/L	EPA 6020
Trichloroethene	0.35	J	1	0.23	1.0	1	ug/L	EPA 8260B
Zinc	3.9	J	1	1.0	10.0	10	ug/L	EPA 6010B

Client ID: 0803-GW9 — **Lab ID: C709032-04**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	93.5	J	1	0.20	10.0	100	ug/L	EPA 6010B
Nickel	2.0	J	1	2.0	10.0	50	ug/L	EPA 6010B
Thallium	0.054	J	1	0.036	0.050	5.5	ug/L	EPA 6020
Vanadium	1.5	J	1	1.0	10.0	25	ug/L	EPA 6010B
Zinc	4.8	J	1	1.0	10.0	10	ug/L	EPA 6010B

Client ID: 0803-GW10 — **Lab ID: C709032-05**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	89.3	J	1	0.20	10.0	100	ug/L	EPA 6010B
Copper	1.00	J	1	0.60	10.0	10	ug/L	EPA 6010B
Selenium	2.0	J	1	2.0	10.0	10	ug/L	EPA 6010B
Zinc	4.4	J	1	1.0	10.0	10	ug/L	EPA 6010B

Client ID: 0803-GW11 — **Lab ID: C709032-06**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method

Client ID: 0803-GW11 **Lab ID: C709032-06**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	20.8	J	1	0.20	10.0	100	ug/L	EPA 6010B
Chloroform	0.37	J	1	0.16	1.0	5	ug/L	EPA 8260B
Chromium	2.5	J	1	2.0	10.0	10	ug/L	EPA 6010B
Lead	2.0	J	1	2.0	10.0	10	ug/L	EPA 6010B

Client ID: 0803-GW13 **Lab ID: C709032-07**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	259		1	0.20	10.0	100	ug/L	EPA 6010B
Nickel	2.3	J	1	2.0	10.0	50	ug/L	EPA 6010B
Thallium	0.060	J	1	0.036	0.050	5.5	ug/L	EPA 6020
Zinc	3.9	J	1	1.0	10.0	10	ug/L	EPA 6010B

Client ID: 0803-GW14 **Lab ID: C709032-08**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	36.3	J	1	0.20	10.0	100	ug/L	EPA 6010B
Cobalt	6.1	J	1	2.0	10.0	10	ug/L	EPA 6010B
Zinc	3.4	J	1	1.0	10.0	10	ug/L	EPA 6010B

Client ID: 0803-GW15 **Lab ID: C709032-09**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	114		1	0.20	10.0	100	ug/L	EPA 6010B
Cobalt	2.6	J	1	2.0	10.0	10	ug/L	EPA 6010B
Lead	2.2	J	1	2.0	10.0	10	ug/L	EPA 6010B
Nickel	2.5	J	1	2.0	10.0	50	ug/L	EPA 6010B
Zinc	5.2	J	1	1.0	10.0	10	ug/L	EPA 6010B

Client ID: 0803-GW16 **Lab ID: C709032-10**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	31.1	J	1	0.20	10.0	100	ug/L	EPA 6010B
Chloroform	1.2	J	1	0.16	1.0	5	ug/L	EPA 8260B
Thallium	0.040	J	1	0.036	0.050	5.5	ug/L	EPA 6020
Zinc	3.7	J	1	1.0	10.0	10	ug/L	EPA 6010B

Client ID: 0803-PW1 **Lab ID: C709032-11**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	68.1	J	1	0.20	10.0	100	ug/L	EPA 6010B
Copper	74.8		1	0.60	10.0	10	ug/L	EPA 6010B
Lead	3.7	J	1	2.0	10.0	10	ug/L	EPA 6010B
Zinc	106		1	1.0	10.0	10	ug/L	EPA 6010B

Client ID: 0803-Field Blank **Lab ID: C709032-16**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	0.80	J	1	0.20	10.0	100	ug/L	EPA 6010B
Vanadium	1.0	J	1	1.0	10.0	25	ug/L	EPA 6010B

Client ID: 0803-Trip Blank **Lab ID: C709032-17**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Toluene	0.33	J	1	0.15	1.0	1	ug/L	EPA 8260B

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ANALYTICAL REPORT

Sample ID:	0803-GW2	Project:	Republic-East Carolina Landfill
Lab #:	C709032-01	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	1.0	1	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-GW2	Project:	Republic-East Carolina Landfill
Lab #:	C709032-01	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	**0.47** J	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	38	50.0	77 %	67-125
Dibromofluoromethane	1868-53-7	42	50.0	84 %	69-111
Toluene-d8	2037-26-5	45	50.0	90 %	85-120

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ANALYTICAL REPORT

Sample ID: 0803-GW2
Lab #: C709032-01

Project: Republic-East Carolina Landfill
Work Order #: C709032
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Barium	7440-39-3	**448**	1	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G11029
Beryllium	7440-41-7	**0.70** J	1	0.70	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Cadmium	7440-43-9	0.50 U	1	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Chromium	7440-47-3	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Cobalt	7440-48-4	**10.0**	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Copper	7440-50-8	0.60 U	1	0.60	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Lead	7439-92-1	**2.3** J	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Nickel	7440-02-0	**6.0** J	1	2.0	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11029
Selenium	7782-49-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Silver	7440-22-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Thallium	7440-28-0	**0.065** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.0 U	1	1.0	10.0	25	ug/L	EPA 6010B	EPA 3005A	7G11029
Zinc	7440-66-6	**8.3** J	1	1.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029

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ANALYTICAL REPORT

Sample ID:	0803-GW7 (MS/MSD)	Project:	Republic-East Carolina Landfill
Lab #:	C709032-02	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	1.0	1	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-GW7 (MS/MSD)	Project:	Republic-East Carolina Landfill
Lab #:	C709032-02	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	38	50.0	75 %	67-125
Dibromofluoromethane	1868-53-7	40	50.0	81 %	69-111
Toluene-d8	2037-26-5	46	50.0	93 %	85-120

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ANALYTICAL REPORT

Sample ID: 0803-GW7 (MS/MSD)
Lab #: C709032-02

Project: Republic-East Carolina Landfill
Work Order #: C709032
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Barium	7440-39-3	**162**	1	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G11029
Beryllium	7440-41-7	**1.90**	1	0.70	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Cadmium	7440-43-9	0.50 U	1	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Chromium	7440-47-3	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Cobalt	7440-48-4	**37.5**	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Copper	7440-50-8	**5.40** J	1	0.60	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Lead	7439-92-1	**2.9** J	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Nickel	7440-02-0	**9.1** J	1	2.0	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11029
Selenium	7782-49-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Silver	7440-22-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Thallium	7440-28-0	**0.050** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.0 U	1	1.0	10.0	25	ug/L	EPA 6010B	EPA 3005A	7G11029
Zinc	7440-66-6	**21.5**	1	1.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029

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ANALYTICAL REPORT

Sample ID:	0803-GW8	Project:	Republic-East Carolina Landfill
Lab #:	C709032-03	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	1.0	1	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-GW8	Project:	Republic-East Carolina Landfill
Lab #:	C709032-03	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	**0.35** J	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	38	50.0	76 %	67-125
Dibromofluoromethane	1868-53-7	43	50.0	86 %	69-111
Toluene-d8	2037-26-5	46	50.0	92 %	85-120

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ANALYTICAL REPORT

Sample ID: 0803-GW8
Lab #: C709032-03

Project: Republic-East Carolina Landfill
Work Order #: C709032
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 3005A	7G16018
Arsenic	7440-38-2	**2.1** J	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Barium	7440-39-3	**121**	1	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G11029
Beryllium	7440-41-7	0.70 U	1	0.70	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Cadmium	7440-43-9	0.50 U	1	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Chromium	7440-47-3	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Cobalt	7440-48-4	**2.9** J	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Copper	7440-50-8	0.60 U	1	0.60	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Lead	7439-92-1	**2.9** J	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Nickel	7440-02-0	**3.8** J	1	2.0	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11029
Selenium	7782-49-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Silver	7440-22-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Thallium	7440-28-0	**0.058** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 3005A	7G16018
Vanadium	7440-62-2	1.0 U	1	1.0	10.0	25	ug/L	EPA 6010B	EPA 3005A	7G11029
Zinc	7440-66-6	**3.9** J	1	1.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029

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ANALYTICAL REPORT

Sample ID:	0803-GW9	Project:	Republic-East Carolina Landfill
Lab #:	C709032-04	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	1.0	1	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-GW9	Project:	Republic-East Carolina Landfill
Lab #:	C709032-04	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	39	50.0	77 %	67-125
Dibromofluoromethane	1868-53-7	44	50.0	88 %	69-111
Toluene-d8	2037-26-5	44	50.0	89 %	85-120

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ANALYTICAL REPORT

Sample ID: 0803-GW9
Lab #: C709032-04

Project: Republic-East Carolina Landfill
Work Order #: C709032
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 3005A	7G16018
Arsenic	7440-38-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Barium	7440-39-3	**93.5** J	1	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G11029
Beryllium	7440-41-7	0.70 U	1	0.70	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Cadmium	7440-43-9	0.50 U	1	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Chromium	7440-47-3	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Cobalt	7440-48-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Copper	7440-50-8	0.60 U	1	0.60	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Lead	7439-92-1	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Nickel	7440-02-0	**2.0** J	1	2.0	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11029
Selenium	7782-49-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Silver	7440-22-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Thallium	7440-28-0	**0.054** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 3005A	7G16018
Vanadium	7440-62-2	**1.5** J	1	1.0	10.0	25	ug/L	EPA 6010B	EPA 3005A	7G11029
Zinc	7440-66-6	**4.8** J	1	1.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029

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ANALYTICAL REPORT

Sample ID:	0803-GW10	Project:	Republic-East Carolina Landfill
Lab #:	C709032-05	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	1.0	1	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-GW10	Project:	Republic-East Carolina Landfill
Lab #:	C709032-05	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	39	50.0	77 %	67-125
Dibromofluoromethane	1868-53-7	44	50.0	88 %	69-111
Toluene-d8	2037-26-5	46	50.0	93 %	85-120

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ANALYTICAL REPORT

Sample ID: 0803-GW10
Lab #: C709032-05

Project: Republic-East Carolina Landfill
Work Order #: C709032
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 3005A	7G16018
Arsenic	7440-38-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Barium	7440-39-3	**89.3** J	1	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G11029
Beryllium	7440-41-7	0.70 U	1	0.70	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Cadmium	7440-43-9	0.50 U	1	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Chromium	7440-47-3	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Cobalt	7440-48-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Copper	7440-50-8	**1.00** J	1	0.60	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Lead	7439-92-1	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Nickel	7440-02-0	2.0 U	1	2.0	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11029
Selenium	7782-49-2	**2.0** J	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Silver	7440-22-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 3005A	7G16018
Vanadium	7440-62-2	1.0 U	1	1.0	10.0	25	ug/L	EPA 6010B	EPA 3005A	7G11029
Zinc	7440-66-6	**4.4** J	1	1.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029

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ANALYTICAL REPORT

Sample ID:	0803-GW11	Project:	Republic-East Carolina Landfill
Lab #:	C709032-06	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	**0.37** J	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	1.0	1	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-GW11	Project:	Republic-East Carolina Landfill
Lab #:	C709032-06	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	38	50.0	75 %	67-125
Dibromofluoromethane	1868-53-7	42	50.0	84 %	69-111
Toluene-d8	2037-26-5	44	50.0	89 %	85-120

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ANALYTICAL REPORT

Sample ID: 0803-GW11
Lab #: C709032-06

Project: Republic-East Carolina Landfill
Work Order #: C709032
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 3005A	7G16018
Arsenic	7440-38-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Barium	7440-39-3	**20.8** J	1	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G11029
Beryllium	7440-41-7	0.70 U	1	0.70	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Cadmium	7440-43-9	0.50 U	1	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Chromium	7440-47-3	**2.5** J	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Cobalt	7440-48-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Copper	7440-50-8	0.60 U	1	0.60	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Lead	7439-92-1	**2.0** J	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Nickel	7440-02-0	2.0 U	1	2.0	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11029
Selenium	7782-49-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Silver	7440-22-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 3005A	7G16018
Vanadium	7440-62-2	1.0 U	1	1.0	10.0	25	ug/L	EPA 6010B	EPA 3005A	7G11029
Zinc	7440-66-6	1.0 U	1	1.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029

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ANALYTICAL REPORT

Sample ID:	0803-GW13	Project:	Republic-East Carolina Landfill
Lab #:	C709032-07	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	1.0	1	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-GW13	Project:	Republic-East Carolina Landfill
Lab #:	C709032-07	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	38	50.0	76 %	67-125
Dibromofluoromethane	1868-53-7	44	50.0	89 %	69-111
Toluene-d8	2037-26-5	46	50.0	91 %	85-120

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ANALYTICAL REPORT

Sample ID: 0803-GW13
Lab #: C709032-07

Project: Republic-East Carolina Landfill
Work Order #: C709032
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 3005A	7G16018
Arsenic	7440-38-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Barium	7440-39-3	**259**	1	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G11029
Beryllium	7440-41-7	0.70 U	1	0.70	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Cadmium	7440-43-9	0.50 U	1	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Chromium	7440-47-3	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Cobalt	7440-48-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Copper	7440-50-8	0.60 U	1	0.60	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Lead	7439-92-1	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Nickel	7440-02-0	**2.3** J	1	2.0	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11029
Selenium	7782-49-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Silver	7440-22-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Thallium	7440-28-0	**0.060** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 3005A	7G16018
Vanadium	7440-62-2	1.0 U	1	1.0	10.0	25	ug/L	EPA 6010B	EPA 3005A	7G11029
Zinc	7440-66-6	**3.9** J	1	1.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029

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ANALYTICAL REPORT

Sample ID:	0803-GW14	Project:	Republic-East Carolina Landfill
Lab #:	C709032-08	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	1.0	1	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-GW14	Project:	Republic-East Carolina Landfill
Lab #:	C709032-08	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	39	50.0	77 %	67-125
Dibromofluoromethane	1868-53-7	44	50.0	89 %	69-111
Toluene-d8	2037-26-5	43	50.0	87 %	85-120

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ANALYTICAL REPORT

Sample ID: 0803-GW14
Lab #: C709032-08

Project: Republic-East Carolina Landfill
Work Order #: C709032
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 3005A	7G16018
Arsenic	7440-38-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Barium	7440-39-3	**36.3** J	1	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G11029
Beryllium	7440-41-7	0.70 U	1	0.70	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Cadmium	7440-43-9	0.50 U	1	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Chromium	7440-47-3	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Cobalt	7440-48-4	**6.1** J	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Copper	7440-50-8	0.60 U	1	0.60	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Lead	7439-92-1	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Nickel	7440-02-0	2.0 U	1	2.0	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11029
Selenium	7782-49-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Silver	7440-22-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 3005A	7G16018
Vanadium	7440-62-2	1.0 U	1	1.0	10.0	25	ug/L	EPA 6010B	EPA 3005A	7G11029
Zinc	7440-66-6	**3.4** J	1	1.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029

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ANALYTICAL REPORT

Sample ID:	0803-GW15	Project:	Republic-East Carolina Landfill
Lab #:	C709032-09	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	1.0	1	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-GW15	Project:	Republic-East Carolina Landfill
Lab #:	C709032-09	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20018		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	39	50.0	78 %	67-125
Dibromofluoromethane	1868-53-7	43	50.0	86 %	69-111
Toluene-d8	2037-26-5	45	50.0	89 %	85-120

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ANALYTICAL REPORT

Sample ID: 0803-GW15
Lab #: C709032-09

Project: Republic-East Carolina Landfill
Work Order #: C709032
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 3005A	7G16018
Arsenic	7440-38-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Barium	7440-39-3	**114**	1	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G11029
Beryllium	7440-41-7	0.70 U	1	0.70	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Cadmium	7440-43-9	0.50 U	1	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Chromium	7440-47-3	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Cobalt	7440-48-4	**2.6** J	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Copper	7440-50-8	0.60 U	1	0.60	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Lead	7439-92-1	**2.2** J	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Nickel	7440-02-0	**2.5** J	1	2.0	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11029
Selenium	7782-49-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Silver	7440-22-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 3005A	7G16018
Vanadium	7440-62-2	1.0 U	1	1.0	10.0	25	ug/L	EPA 6010B	EPA 3005A	7G11029
Zinc	7440-66-6	**5.2** J	1	1.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029

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ANALYTICAL REPORT

Sample ID:	0803-GW16	Project:	Republic-East Carolina Landfill
Lab #:	C709032-10	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Surface Water
Analyzed:	07/21/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20032		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	**1.2** J	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	1.0	1	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-GW16	Project:	Republic-East Carolina Landfill
Lab #:	C709032-10	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Surface Water
Analyzed:	07/21/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20032		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	38	50.0	76 %	67-125
Dibromofluoromethane	1868-53-7	43	50.0	86 %	69-111
Toluene-d8	2037-26-5	46	50.0	91 %	85-120

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ANALYTICAL REPORT

Sample ID: 0803-GW16
Lab #: C709032-10

Project: Republic-East Carolina Landfill
Work Order #: C709032
Matrix: Surface Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 3005A	7G16018
Arsenic	7440-38-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Barium	7440-39-3	**31.1** J	1	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G11029
Beryllium	7440-41-7	0.70 U	1	0.70	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Cadmium	7440-43-9	0.50 U	1	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Chromium	7440-47-3	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Cobalt	7440-48-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Copper	7440-50-8	0.60 U	1	0.60	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Lead	7439-92-1	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Nickel	7440-02-0	2.0 U	1	2.0	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11029
Selenium	7782-49-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Silver	7440-22-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Thallium	7440-28-0	**0.040** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 3005A	7G16018
Vanadium	7440-62-2	1.0 U	1	1.0	10.0	25	ug/L	EPA 6010B	EPA 3005A	7G11029
Zinc	7440-66-6	**3.7** J	1	1.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029

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ANALYTICAL REPORT

Sample ID:	0803-PW1	Project:	Republic-East Carolina Landfill
Lab #:	C709032-11	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Surface Water
Analyzed:	07/21/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20032		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	1.0	1	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-PW1	Project:	Republic-East Carolina Landfill
Lab #:	C709032-11	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Surface Water
Analyzed:	07/21/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20032		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	38	50.0	77 %	67-125
Dibromofluoromethane	1868-53-7	43	50.0	86 %	69-111
Toluene-d8	2037-26-5	46	50.0	92 %	85-120

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ANALYTICAL REPORT

Sample ID: 0803-PW1
Lab #: C709032-11

Project: Republic-East Carolina Landfill
Work Order #: C709032
Matrix: Surface Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 3005A	7G16018
Arsenic	7440-38-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Barium	7440-39-3	**68.1** J	1	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G11029
Beryllium	7440-41-7	0.70 U	1	0.70	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Cadmium	7440-43-9	0.50 U	1	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Chromium	7440-47-3	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Cobalt	7440-48-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Copper	7440-50-8	**74.8**	1	0.60	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Lead	7439-92-1	**3.7** J	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Nickel	7440-02-0	2.0 U	1	2.0	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11029
Selenium	7782-49-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Silver	7440-22-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 3005A	7G16018
Vanadium	7440-62-2	1.0 U	1	1.0	10.0	25	ug/L	EPA 6010B	EPA 3005A	7G11029
Zinc	7440-66-6	**106**	1	1.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029

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ANALYTICAL REPORT

Sample ID:	0803-Field Blank	Project:	Republic-East Carolina Landfill
Lab #:	C709032-16	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/21/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20032		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	1.0	1	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-Field Blank	Project:	Republic-East Carolina Landfill
Lab #:	C709032-16	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/21/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20032		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	37	50.0	75 %	67-125
Dibromofluoromethane	1868-53-7	42	50.0	84 %	69-111
Toluene-d8	2037-26-5	45	50.0	89 %	85-120

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ANALYTICAL REPORT

Sample ID: 0803-Field Blank
Lab #: C709032-16

Project: Republic-East Carolina Landfill
Work Order #: C709032
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 3005A	7G16018
Arsenic	7440-38-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Barium	7440-39-3	**0.80** J	1	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G11029
Beryllium	7440-41-7	0.70 U	1	0.70	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Cadmium	7440-43-9	0.50 U	1	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11029
Chromium	7440-47-3	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Cobalt	7440-48-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Copper	7440-50-8	0.60 U	1	0.60	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Lead	7439-92-1	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Nickel	7440-02-0	2.0 U	1	2.0	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11029
Selenium	7782-49-2	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Silver	7440-22-4	2.0 U	1	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 3005A	7G16018
Vanadium	7440-62-2	**1.0** J	1	1.0	10.0	25	ug/L	EPA 6010B	EPA 3005A	7G11029
Zinc	7440-66-6	1.0 U	1	1.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11029

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ANALYTICAL REPORT

Sample ID:	0803-Trip Blank	Project:	Republic-East Carolina Landfill
Lab #:	C709032-17	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/21/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20032		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	1.0	1	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-Trip Blank	Project:	Republic-East Carolina Landfill
Lab #:	C709032-17	Work Order #:	C709032
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/21/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G20032		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	**0.33** J	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	38	50.0	76 %	67-125
Dibromofluoromethane	1868-53-7	41	50.0	82 %	69-111
Toluene-d8	2037-26-5	44	50.0	87 %	85-120

QUALITY CONTROL

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

Volatile Organic Compounds by GCMS - Quality Control

Batch 7G20018 - EPA 5030B_MS

Blank (7G20018-BLK1) Prepared: 07/20/2007 12:35 Analyzed: 07/20/2007 13:30

Chloromethane	0.18 U	1.0	ug/L
Vinyl chloride	0.15 U	1.0	ug/L
Bromomethane	0.21 U	1.0	ug/L
Chloroethane	0.40 U	1.0	ug/L
Trichlorofluoromethane	0.16 U	1.0	ug/L
1,1-Dichloroethene	0.14 U	1.0	ug/L
Acetone	0.90 U	5.0	ug/L
Iodomethane	0.23 U	2.0	ug/L
Carbon disulfide	0.12 U	5.0	ug/L
Methylene chloride	0.088 U	1.0	ug/L
Acrylonitrile	2.0 U	5.0	ug/L
trans-1,2-Dichloroethene	0.10 U	1.0	ug/L
1,1-Dichloroethane	0.090 U	1.0	ug/L
Vinyl acetate	0.19 U	2.0	ug/L
2-Butanone	0.56 U	5.0	ug/L
cis-1,2-Dichloroethene	0.14 U	1.0	ug/L
Bromochloromethane	0.19 U	1.0	ug/L
Chloroform	0.16 U	1.0	ug/L
1,1,1-Trichloroethane	0.24 U	1.0	ug/L
Carbon tetrachloride	0.38 U	1.0	ug/L
1,2-Dichloroethane	0.36 U	1.0	ug/L
Benzene	0.12 U	1.0	ug/L
Trichloroethene	0.23 U	1.0	ug/L
1,2-Dichloropropane	0.18 U	1.0	ug/L
Dibromomethane	0.14 U	1.0	ug/L
Bromodichloromethane	0.19 U	0.40	ug/L
cis-1,3-Dichloropropene	0.16 U	0.20	ug/L
4-Methyl-2-pentanone	0.36 U	5.0	ug/L
Toluene	0.15 U	1.0	ug/L
trans-1,3-Dichloropropene	0.18 U	0.20	ug/L
1,1,2-Trichloroethane	0.24 U	1.0	ug/L
Tetrachloroethene	0.25 U	1.0	ug/L
2-Hexanone	0.24 U	5.0	ug/L
Dibromochloromethane	0.18 U	1.0	ug/L
1,2-Dibromoethane	0.19 U	1.0	ug/L
Chlorobenzene	0.16 U	1.0	ug/L
1,1,1,2-Tetrachloroethane	0.16 U	1.0	ug/L
Ethylbenzene	0.17 U	1.0	ug/L
Styrene	0.12 U	1.0	ug/L
Bromoform	0.36 U	1.0	ug/L
1,1,2,2-Tetrachloroethane	0.27 U	1.0	ug/L
1,2,3-Trichloropropane	0.32 U	1.0	ug/L
trans-1,4-Dichloro-2-butene	0.60 U	1.0	ug/L
1,4-Dichlorobenzene	0.15 U	1.0	ug/L
1,2-Dichlorobenzene	0.17 U	1.0	ug/L

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 7G20018 - EPA 5030B_MS										
Blank (7G20018-BLK1) Continued				Prepared: 07/20/2007 12:35 Analyzed: 07/20/2007 13:30						
1,2-Dibromo-3-chloropropane	0.19 U	1.0	ug/L							
Xylenes (Total)	0.21 U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*44*		*ug/L*	*50.0*		*88*	*69-111*			
Surrogate: Toluene-d8	*47*		*ug/L*	*50.0*		*93*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*39*		*ug/L*	*50.0*		*79*	*67-125*			
LCS (7G20018-BS1)				Prepared: 07/20/2007 12:35 Analyzed: 07/20/2007 13:57						
1,1-Dichloroethene	12	1.0	ug/L	20.0		62	57-141			
Benzene	19	1.0	ug/L	20.0		96	76-116			
Trichloroethene	19	1.0	ug/L	20.0		95	81-118			
Toluene	17	1.0	ug/L	20.0		83	77-120			
Chlorobenzene	18	1.0	ug/L	20.0		91	75-115			
Matrix Spike (7G20018-MS1)		**Source: C709032-02**		Prepared: 07/20/2007 12:35 Analyzed: 07/20/2007 14:23						
1,1-Dichloroethene	12	1.0	ug/L	20.0	0.14 U	59	57-141			
Benzene	17	1.0	ug/L	20.0	0.12 U	86	76-116			
Trichloroethene	17	1.0	ug/L	20.0	0.23 U	85	81-118			
Toluene	16	1.0	ug/L	20.0	0.15 U	78	77-120			
Chlorobenzene	16	1.0	ug/L	20.0	0.16 U	79	75-115			
Matrix Spike Dup (7G20018-MSD1)		**Source: C709032-02**		Prepared: 07/20/2007 12:35 Analyzed: 07/20/2007 14:50						
1,1-Dichloroethene	11 QM-07	1.0	ug/L	20.0	0.14 U	53	57-141	11	12	QM-07
Benzene	17	1.0	ug/L	20.0	0.12 U	85	76-116	1	14	
Trichloroethene	16	1.0	ug/L	20.0	0.23 U	81	81-118	4	11	
Toluene	14 QM-07	1.0	ug/L	20.0	0.15 U	70	77-120	10	17	QM-07
Chlorobenzene	15 QM-07	1.0	ug/L	20.0	0.16 U	73	75-115	7	12	QM-07
Batch 7G20032 - EPA 5030B_MS										
Blank (7G20032-BLK1)				Prepared: 07/20/2007 13:06 Analyzed: 07/21/2007 02:43						
Chloromethane	0.18 U	1.0	ug/L							
Vinyl chloride	0.15 U	1.0	ug/L							
Bromomethane	0.21 U	1.0	ug/L							
Chloroethane	0.40 U	1.0	ug/L							
Trichlorofluoromethane	0.16 U	1.0	ug/L							
1,1-Dichloroethene	0.14 U	1.0	ug/L							
Acetone	0.90 U	5.0	ug/L							
Iodomethane	0.23 U	2.0	ug/L							
Carbon disulfide	0.12 U	5.0	ug/L							
Methylene chloride	0.088 U	2.0	ug/L							
Acrylonitrile	2.0 U	5.0	ug/L							
trans-1,2-Dichloroethene	0.10 U	1.0	ug/L							
1,1-Dichloroethane	0.090 U	1.0	ug/L							
Vinyl acetate	0.19 U	2.0	ug/L							
2-Butanone	0.56 U	5.0	ug/L							
cis-1,2-Dichloroethene	0.14 U	1.0	ug/L							
Bromochloromethane	0.19 U	1.0	ug/L							
Chloroform	0.16 U	1.0	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 7G20032 - EPA 5030B_MS										
Blank (7G20032-BLK1) Continued				Prepared: 07/20/2007 13:06 Analyzed: 07/21/2007 02:43						
1,1,1-Trichloroethane	0.24 U	1.0	ug/L							
Carbon tetrachloride	0.38 U	1.0	ug/L							
1,2-Dichloroethane	0.36 U	1.0	ug/L							
Benzene	0.12 U	1.0	ug/L							
Trichloroethene	0.23 U	1.0	ug/L							
1,2-Dichloropropane	0.18 U	1.0	ug/L							
Dibromomethane	0.14 U	1.0	ug/L							
Bromodichloromethane	0.19 U	0.40	ug/L							
cis-1,3-Dichloropropene	0.16 U	0.20	ug/L							
4-Methyl-2-pentanone	0.36 U	5.0	ug/L							
Toluene	0.15 U	1.0	ug/L							
trans-1,3-Dichloropropene	0.18 U	0.20	ug/L							
1,1,2-Trichloroethane	0.24 U	1.0	ug/L							
Tetrachloroethene	0.25 U	1.0	ug/L							
2-Hexanone	0.24 U	5.0	ug/L							
Dibromochloromethane	0.18 U	1.0	ug/L							
1,2-Dibromoethane	0.19 U	1.0	ug/L							
Chlorobenzene	0.16 U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.16 U	1.0	ug/L							
Ethylbenzene	0.17 U	1.0	ug/L							
Styrene	0.12 U	1.0	ug/L							
Bromoform	0.36 U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.27 U	1.0	ug/L							
1,2,3-Trichloropropane	0.32 U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.60 U	1.0	ug/L							
1,4-Dichlorobenzene	0.15 U	1.0	ug/L							
1,2-Dichlorobenzene	0.17 U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.19 U	1.0	ug/L							
Xylenes (Total)	0.21 U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*43*		*ug/L*	*50.0*		*86*	*69-111*			
Surrogate: Toluene-d8	*45*		*ug/L*	*50.0*		*90*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*39*		*ug/L*	*50.0*		*78*	*67-125*			
LCS (7G20032-BS1)				Prepared: 07/20/2007 13:06 Analyzed: 07/21/2007 03:09						
1,1-Dichloroethene	14	1.0	ug/L	20.0		68	57-141			
Benzene	21	1.0	ug/L	20.0		106	76-116			
Trichloroethene	20	1.0	ug/L	20.0		100	81-118			
Toluene	18	1.0	ug/L	20.0		91	77-120			
Chlorobenzene	19	1.0	ug/L	20.0		95	75-115			
Matrix Spike (7G20032-MS1)		**Source: C709035-03**		Prepared: 07/20/2007 13:06 Analyzed: 07/21/2007 03:35						
1,1-Dichloroethene	14	1.0	ug/L	20.0	0.14 U	72	57-141			
Benzene	20	1.0	ug/L	20.0	0.12 U	102	76-116			
Trichloroethene	21	1.0	ug/L	20.0	0.23 U	104	81-118			
Toluene	18	1.0	ug/L	20.0	0.15 U	92	77-120			
Chlorobenzene	19	1.0	ug/L	20.0	0.16 U	93	75-115			

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 7G20032 - EPA 5030B_MS										
Matrix Spike Dup (7G20032-MSD1)		**Source: C709035-03**		Prepared: 07/20/2007 13:06 Analyzed: 07/21/2007 04:01						
1,1-Dichloroethene	16	1.0	ug/L	20.0	0.14 U	78	57-141	8	12	
Benzene	23	1.0	ug/L	20.0	0.12 U	114	76-116	11	14	
Trichloroethene	22	1.0	ug/L	20.0	0.23 U	111	81-118	7	11	
Toluene	19	1.0	ug/L	20.0	0.15 U	97	77-120	5	17	
Chlorobenzene	20	1.0	ug/L	20.0	0.16 U	100	75-115	7	12	
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7G11029 - EPA 3005A										
Blank (7G11029-BLK1)				Prepared: 07/11/2007 14:31 Analyzed: 07/23/2007 09:38						
Arsenic	2.0 U	10.0	ug/L							
Barium	**0.80 J**	10.0	ug/L							
Beryllium	0.70 U	1.00	ug/L							
Cadmium	0.50 U	1.00	ug/L							
Chromium	2.0 U	10.0	ug/L							
Cobalt	2.0 U	10.0	ug/L							
Copper	0.60 U	10.0	ug/L							
Lead	2.0 U	10.0	ug/L							
Nickel	2.0 U	10.0	ug/L							
Selenium	2.0 U	10.0	ug/L							
Silver	2.0 U	10.0	ug/L							
Vanadium	1.0 U	10.0	ug/L							
Zinc	1.0 U	10.0	ug/L							
LCS (7G11029-BS1)				Prepared: 07/11/2007 14:31 Analyzed: 07/23/2007 09:59						
Arsenic	0.6	0.01	mg/L	0.500		112	82-117			
Barium	0.55	0.01	mg/L	0.500		109	72-125			
Beryllium	0.29	0.001	mg/L	0.250		114	75-121			
Cadmium	0.28	0.001	mg/L	0.250		113	72-120			
Chromium	0.6	0.01	mg/L	0.500		110	78-119			
Cobalt	0.6	0.01	mg/L	0.500		111	76-117			
Copper	0.27	0.01	mg/L	0.250		109	80-117			
Lead	0.6	0.01	mg/L	0.500		110	72-121			
Nickel	0.6	0.01	mg/L	0.500		113	78-116			
Selenium	0.6	0.01	mg/L	0.500		113	82-127			
Silver	0.05	0.01	mg/L	0.0500		109	80-128			
Vanadium	0.3	0.01	mg/L	0.250		108	78-117			
Zinc	0.6	0.01	mg/L	0.500		110	80-120			
Matrix Spike (7G11029-MS1)		**Source: C709032-02**		Prepared: 07/11/2007 14:31 Analyzed: 07/23/2007 10:16						
Arsenic	0.6	0.01	mg/L	0.500	-0.002	116	64-126			
Barium	0.86 QM-05	0.01	mg/L	0.500	0.16	139	74-119			QM-05
Beryllium	0.30	0.001	mg/L	0.250	0.002	119	70-131			
Cadmium	0.29	0.001	mg/L	0.250	-0.0002	117	68-121			
Chromium	0.6	0.01	mg/L	0.500	-0.002	115	73-120			
Cobalt	0.6	0.01	mg/L	0.500	0.04	115	76-120			
Copper	0.29	0.01	mg/L	0.250	0.005	114	75-123			
Lead	0.6	0.01	mg/L	0.500	0.003	114	68-126			

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7G11029 - EPA 3005A										
Matrix Spike (7G11029-MS1) Continued		**Source: C709032-02**		Prepared: 07/11/2007 14:31 Analyzed: 07/23/2007 10:16						
Nickel	0.6	0.01	mg/L	0.500	0.009	116	64-126			
Selenium	0.6	0.01	mg/L	0.500	-0.0001	117	65-129			
Silver	0.06	0.01	mg/L	0.0500	-0.001	116	69-121			
Vanadium	0.3	0.01	mg/L	0.250	-0.004	113	71-130			
Zinc	0.6	0.01	mg/L	0.500	0.02	115	63-131			
Matrix Spike Dup (7G11029-MSD1)		**Source: C709032-02**		Prepared: 07/11/2007 14:31 Analyzed: 07/23/2007 10:23						
Arsenic	0.6	0.01	mg/L	0.500	-0.002	112	64-126	3	12	
Barium	0.83 QM-05	0.01	mg/L	0.500	0.16	133	74-119	3	11	QM-05
Beryllium	0.29	0.001	mg/L	0.250	0.002	115	70-131	3	21	
Cadmium	0.28	0.001	mg/L	0.250	-0.0002	113	68-121	4	12	
Chromium	0.6	0.01	mg/L	0.500	-0.002	110	73-120	4	10	
Cobalt	0.6	0.01	mg/L	0.500	0.04	111	76-120	4	17	
Copper	0.28	0.01	mg/L	0.250	0.005	109	75-123	4	16	
Lead	0.6	0.01	mg/L	0.500	0.003	109	68-126	4	19	
Nickel	0.6	0.01	mg/L	0.500	0.009	113	64-126	3	12	
Selenium	0.6	0.01	mg/L	0.500	-0.0001	113	65-129	4	10	
Silver	0.05	0.01	mg/L	0.0500	-0.001	111	69-121	4	12	
Vanadium	0.3	0.01	mg/L	0.250	-0.004	109	71-130	4	16	
Zinc	0.6	0.01	mg/L	0.500	0.02	111	63-131	3	24	
Batch 7G12032 - EPA 200.8										
Blank (7G12032-BLK1)				Prepared: 07/12/2007 13:44 Analyzed: 07/13/2007 12:22						
Antimony	0.68 U	2.00	ug/L							
Thallium	0.036 U	0.050	ug/L							
LCS (7G12032-BS1)				Prepared: 07/12/2007 13:44 Analyzed: 07/13/2007 12:24						
Antimony	26.6	2.00	ug/L	25.0		106	85-115			
Thallium	26.6	0.050	ug/L	25.0		106	85-115			
Matrix Spike (7G12032-MS1)		**Source: C709032-02**		Prepared: 07/12/2007 13:44 Analyzed: 07/13/2007 12:34						
Antimony	25.6	2.00	ug/L	25.0	0.68 U	102	85-115			
Thallium	25.3	0.050	ug/L	25.0	0.050	101	85-115			
Matrix Spike Dup (7G12032-MSD1)		**Source: C709032-02**		Prepared: 07/12/2007 13:44 Analyzed: 07/13/2007 12:37						
Antimony	24.9	2.00	ug/L	25.0	0.68 U	99	85-115	3	20	
Thallium	24.5	0.050	ug/L	25.0	0.050	98	85-115	3	20	
Batch 7G16018 - EPA 3005A										
Blank (7G16018-BLK1)				Prepared: 07/16/2007 12:27 Analyzed: 07/17/2007 12:16						
Antimony	0.68 U	2.00	ug/L							
Thallium	0.036 U	0.050	ug/L							
LCS (7G16018-BS1)				Prepared: 07/16/2007 12:27 Analyzed: 07/17/2007 15:07						
Antimony	25.4	2.00	ug/L	25.0		102	85-115			
Thallium	23.6	0.050	ug/L	25.0		95	85-115			
Matrix Spike (7G16018-MS1)		**Source: C709032-03**		Prepared: 07/16/2007 12:27 Analyzed: 07/17/2007 12:23						
Antimony	28.6	2.00	ug/L	25.0	0.68 U	115	85-115			
Thallium	27.3	0.050	ug/L	25.0	0.058	109	85-115			

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7G16018 - EPA 3005A										
Matrix Spike Dup (7G16018-MSD1)		**Source: C709032-03**		Prepared: 07/16/2007 12:27 Analyzed: 07/17/2007 12:26						
Antimony	30.7 QM-05	2.00	ug/L	25.0	0.68 U	123	85-115	7	20	QM-05
Thallium	29.7 QM-05	0.050	ug/L	25.0	0.058	119	85-115	8	20	QM-05

NOTES AND DEFINITIONS

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
U	Analyte included in the analysis, but not detected

LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
8260B Appendix 1	Water	NC	591
Antimony Total EPA 6020	Water	NC	591
Arsenic Total EPA 6010B	Water	NC	591
Barium Total EPA 6010B	Water	NC	591
Beryllium Total EPA 6010B	Water	NC	591
Cadmium Total EPA 6010B	Water	NC	591
Chromium Total EPA 6010B	Water	NC	591
Cobalt Total EPA 6010B	Water	NC	591
Copper Total EPA 6010B	Water	NC	591
Lead Total EPA 6010B	Water	NC	591
Nickel Total EPA 6010B	Water	NC	591
Selenium Total EPA 6010B	Water	NC	591
Silver Total EPA 6010B	Water	NC	591
Thallium Total EPA 6020	Water	NC	591
Vanadium Total EPA 6010B	Water	NC	591
Zinc Total EPA 6010B	Water	NC	591

WORK ORDER

Printed: 7/26/2007 8:11:44AM

C709032

ENCO Cary

Sample Receipt Conditions

Client: Golder Associates, Inc. (GO007)
Project: Republic-East Carolina Landfill
PO #:

Lab Project Mgr: Chuck Smith
Project Number: 053-6620.007.100

Report To:
Golder Associates, Inc. (GO007)
Rachel Kirkman
The Wingate Building 4900 Koger Blvd., Suite 140
Greensboro, NC 27407
Phone: (336) 852-4903
Fax: (336) 852-4904

Invoice To:
Golder Associates, Inc. (GO007)
Rachel Kirkman
The Wingate Building 4900 Koger Blvd., Suite 140
Greensboro, NC 27407
Phone :(336) 852-4903
Fax: (336) 852-4904

Received By:	Derek Williams	Date Received:	10-Jul-07 14:30
Logged In By:	Derek Williams	Date Logged In:	10-Jul-07 18:45

Workorder Comments:

C - 30 received at 3.8°C

Containers Intact	Y	Containers Properly Preserved	Y	Proper Containers Received	Y	All Samples in PreLog Received	N	COC/Labels Agree	Y
Custody Seals Intact	Y	Volatile Containers Preserved	Y	Volatile Containers Headspace Free	Y	Aqueous Samples Checked for Residual Cl	N		

Reviewed By

Date

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

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Client Name: Golder Associates, Inc. (GO007)	Project Number: 053-6620.007.100
Address: The Wingate Building 4900 Koger Blvd., Suite 140	Project Name/Desc: Republic-East Carolina Landfill
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 852-4903 / Fax: (336) 852-4904	Reporting Contact: Rachel Kirkman
Sampler(s) Name, Affiliation (Print): Client / GOLDER ASSOCIATES OF NC, INC	Billing Contact: Rachel Kirkman
Sampler(s) Signature: B. DRAPER / K. HIGGS	Facility # (if required): 08-03

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

Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C709032

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
	0803-GW2	7-9-2007	12:20	G	Water	4	X	X	NC App. I (METALS VOAS)
	0803-GW7 (MS/MSD)	7-9-2007	14:46	G	Water	7	X	X	
	0803-GW8	7-9-2007	15:19	G	Water	4	X	X	
	0803-GW9	7-9-2007	15:46	G	Water	4	X	X	
	0803-GW10	7-9-2007	16:19	G	Water	4	X	X	
	0803-GW11	7-10-2007	8:25	G	Water	4	X	X	
	0803-GW13	7-10-2007	8:59	G	Water	4	X	X	
	0803-GW14	7-9-2007	14:03	G	Water	4	X	X	
	0803-GW15	7-9-2007	12:53	G	Water	4	X	X	
	0803-GW16	7-9-2007	13:30	G	Water	4	X	X	
	0803-PW1	7-10-2007	10:24	G	Water	4	X	X	
	0803-SW1	7-10-2007	DRY NO SAMPLE		Water	4	X	X	DRY NO SAMPLE

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CARM			7-10-2007 14:30		7/10/07 14:30
Comments: 1. Please provide level 2 DATA REPORT 2. UNIT RATES PER "BASIC ORDERING AGREEMENT FOR LAB SERVICES" DATED APRIL 9, 2007 — 2007 ENCO BASIC PRICE LIST. 3. NEED 7-10 DAY TAT w/ NO SURCHARGE 4. ESTIMATED FEE = $23.20 (TAX INCLUDED)		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-30 3.8°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.

LOA PER BENJAMIN DRAPER APPROVED BY:

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

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Client Name: Golder Associates, Inc. (GO007)	Project Number: 053-6620.007.100
Address: The Wingate Building 4900 Koger Blvd., Suite 140	Project Name/Desc: Republic-East Carolina Landfill
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 852-4903 / Fax: (336) 852-4904	Reporting Contact: Rachel Kirkman
Sampler(s) Name, Affiliation (Print): Client / Golder Associates of NC, Inc.	Billing Contact: Rachel Kirkman
Sampler(s) Signature: B. Dreyer / K. Hilgs	Facility # (if required): 08-03

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

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C709032

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
	0803-SW2	7-10-2007	DRY NO SAMPLE		Water	4	X	X									DRY NO SAMPLE
	0803-SW3	7-10-2007	DRY NO SAMPLE		Water	4	X	X									DRY NO SAMPLE
	0803-SW4	7-10-2007	DRY NO SAMPLE		Water	4	X	X									DRY NO SAMPLE
	0803-Field Blank	7-10-2007	11:17	G	Water	4	X	X									NC App I (metals VOAs)
	0803-Trip Blank	—	—	G	Water	3	X										NC App I VOAs only

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By: CARY	Date/Time:	Relinquished By:	Date/Time: 7-10-2007/14:30	Received By:	Date/Time: 7/10/07 14:30
Comments: 1. PLEASE PROVIDE LEVEL 2 DATA REPORT 2. UNIT RATES PER "BASIC ORDERING AGREEMENT FOR LAB SERVICES" DATED APRIL 7, 2004 "UPDATED ENCO 2007 PRICE LIST. 3. NEED 7-10 DAY TAT (NO SURCHARGE) 4. ESTIMATED FEE = $2320.00 (TAT, TJ-4)		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt:		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note . All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

LOA PER BENJAMIN DREYER APPROVED BY:

GOLDER ASSOCIATES NC, INC.
QUALITY ASSURANCE & QUALITY CONTROL
LABORATORY DATA REVIEW

Project Name: East Carolina Landfill

Project Reference Number: 053-6620007.100

Sampling Event Date: July 9, 2007

Review Date: August 3, 2007 *Initials:* RK RK

Review Date: August 17, 2007 *Initials:* JD JD

Report #: C709032

Person(s) performing the review are to initial each item on this form as acknowledgement of data acceptance, or as acknowledgement of a review issue. In the case of the latter, a brief explanation should follow the applicable item.

Golder Associates Inc. has reviewed the laboratory certificates of analysis, chain-of-custody form, and laboratory provided sample group quality assurance and quality control data for the above referenced sample group to identify potential bias or inaccuracy, in general accordance with the following United States Environmental Protection Agency documents:

- Region III Modifications to Functional Guidelines for Organic Data Review Multi-Media, Multi-Concentration, September 1994;
- Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, April 1993; and
- Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, July 1998.

COMPLIANCE ANALYTE LIST(S) (check all that apply)

___ NC Closed Facility List (.500 Rules)

___ NC C & D List (New Rules)

X NC Appendix I

___ NC Appendix I + Detects

___ NC Appendix II

___ NC Subtitle D Leachate List

Other: _____

1.0 CHAIN OF CUSTODY (COC) REVIEW

RK JD COC was properly signed by all parties.

RK JD Correct project name and number are on the form.

RK JD Sample receipt condition at laboratory was acceptable.

RK JD Each sample and blank submitted for analysis appears in the report.

Notes: *Surface water points SW-1, -2, -3 and -4 were dry during this event.*

2.0 SAMPLE HOLDING TIMES

RK JD Holding times for extraction and/or analysis were met for each analytical Method (see below for reference).

Notes: _____

Review Criteria		
Method	**Analytes**	**Holding Time**
SW-846 Method 8260 and 8011	VOCs	14 days
SW-846 Methods 8270, 8080, 8081, 8082, and 8151	SVOCs, PCBs, pesticides and herbicides	7 days for extraction, 40 days from extraction for analysis
SW-846 Methods 6000 and 7000 Series	Metals except mercury	6 months (no temperature requirements)
SW-846 Method 7470	Mercury	28 days
SW-846 Method 376.1	Sulfide	7 days
SW-846 Method 9010	Cyanide	14 days
EPA Method 300	Nitrate/Sulfate	48 hours/28 days
EPA Method 405.1	BOD	48 hours
EPA Method 410.4	COD	28 days
EPA Method 365.4	Phosphorous	28 days

3.0 LABORATORY QUALITY CONTROL REVIEW

RK JD Laboratory analyzed at least one internal blank for each method, where applicable.

RK JD Laboratory blank is interference-free.

- ***Barium detected at an estimated concentration of 0.80 ug/L (J-value).***

RK JD Surrogate recoveries are provided for each analytical method, where applicable.

RK JD Surrogate recoveries for each method are within the acceptable limits (i.e., at least 50% of the surrogates were within range).

RK JD MS/MSD/LCS data results are provided for each analytical method.

RK JD MS/MSD/LCS recoveries for each method are within the acceptable limits (i.e., at least 1 of the 3 were within range).

- ***The spike recoveries for 1,1-dichloroethene, toluene and chlorobenzene were outside acceptance limits for the MSD and are flagged with "QM-07" flags. The LCS data were within acceptable limits showing that the laboratory was in control and the data are acceptable.***

- ***The spike recoveries were for barium were outside acceptance limits for the MS and MSD due to matrix interference and are flagged with "QM-05" flags. The LCS data were within acceptance limits showing that the laboratory was in control and the data are acceptable.***
- ***The spike recoveries for antimony and thallium were outside acceptance limits for the MSD and are flagged with "QM-05" flags. The LCS data were within acceptable limits showing that the laboratory was in control and the data are acceptable.***

Notes: _____

4.0 ANALYTE LISTS/METHODS

RK JD The proper number of constituents are present for each analyte list as identified above (including detects where applicable).

RK JD Proper EPA SW-846 analytical methods were used for analysis.

Notes: _____

5.0 DATA REPORTING

RK JD All analytical reporting associated with the event was performed by the contracted lab.

RK JD Trip, field and/or equipment, and laboratory blank results have all been reported. All detects for blanks are listed below by constituent. All laboratory method blanks, if any, have been 'flagged' with a 'B' where detected in other samples as appropriate and a laboratory narrative was provided. If the sample was flagged by the laboratory and is not within 5X of the concentration in the blank (or 10X for commonly detected laboratory contaminants-acetone, methylene chloride and phthalates), list below with explanation if flags should be removed. If flags need to be added for samples, also list below.

- ***Toluene detected in trip blank at 0.33 J ug/L as described in narrative.***
- ***Barium detected at 0.80 J ug/L and vanadium at 1.0 J ug/L in field blank. Barium detected at 0.80 J ug/L in the method blank. Vanadium in GW-9 should be B-flagged.***

RK JD It is clear from the laboratory report that samples have or have not been diluted during analysis, and if the samples have been diluted, the result is reported as a multiple of the dilution (e.g., a sample diluted 10x resulting in an analytical detection of 1.0 should be reported as 10). Those that have been diluted are listed below with the dilution factor.

RK JD The report provides the reporting limit for each constituent.

RK JD The results were reported at or below their proper reporting limits (i.e., MDLs with

SWSLs reported). Those that are not reported correctly are listed below (by constituent) with the proper reporting limit listed beside them. State if the reporting limit error is due to dilutions.

RK JD No organic constituents were reported above their respective SWSLs, and no inorganic or organic constituents were reported above their respective NC 2L Drinking Water Standards/GPS in wells, or field/equipment/trip blanks, or above applicable surface water standards in surface water points.

- ***Cobalt was detected in GW-2, GW-7, GW-8, GW-14, GW-15 above GPS but below NCSWSL.***
- ***Trichloroethene detected in GW-2 and GW-8 just below NCSWSL (new detections).***
- ***Chloroform detected in GW-11 and GW-16 below NCSWSL (as they were during January event).***
- ***Surface water points were dry during this event.***

RK JD No inorganic and organic constituents were detected in a well or surface water point at concentrations outside of their historical range (more than 5X previous concentrations or first-time detections).

- ***Trichloroethene detected in GW-2 and GW-8 just below NCSWSL (new detections).***

RK JD Other report issues/Communications with laboratory/etc.:

Notes: ***"U" flags present on pages 50-51 next to MS and MSD antimony source results***

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

www.encolabs.com

RECEIVED JUL 30 2007

Thursday, July 26, 2007

Golder Associates, Inc. (GO007)

Attn: Rachel Kirkman

The Wingate Building 4900 Koger Blvd., Suite 140

Greensboro, NC 27407

RE: Project Number: 053-6620.007.100, Project Name/Desc: Republic-East Carolina Landfill leachate
ENCO Workorder: C709064

Dear Rachel Kirkman,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, July 10, 2007.

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.

This data has been produced in accordance with NELAC standards (June, 2003). 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. 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

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 18.

The sample containers were not checked for residual Chlorine at receipt as it is not required for ground water samples.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 0803-Leachate

Lab ID: C709064-01

Sampled: 07/10/07 10:51

Received: 07/10/07 14:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.2	07/17/07	07/16/07 07:04	7/17/2007 09:00
EPA 1664	08/07/07	07/11/07 11:04	7/12/2007 08:13
EPA 335.2	07/24/07	07/13/07 10:02	7/18/2007 12:39
EPA 351.2	08/07/07	07/13/07 13:04	7/14/2007 12:01
EPA 353.2	08/07/07	07/13/07 07:39	7/23/2007 10:56
EPA 365.4	08/07/07	07/13/07 13:04	7/14/2007 13:40
EPA 375.4	08/07/07	07/24/07 14:57	7/24/2007 16:00
EPA 405.1	07/12/07 10:51 07/16/07	07/11/07 13:03	7/16/2007 09:09
EPA 410.4	08/07/07	07/16/07 08:04	7/16/2007 13:30
EPA 420.1	08/07/07	07/12/07 12:32	7/12/2007 18:15
EPA 6010B	01/06/08	07/11/07 14:08	7/13/2007 11:45
EPA 6020	01/06/08	07/16/07 12:27	7/17/2007 12:55
EPA 7470A	08/07/07	07/12/07 14:09	7/13/2007 14:26
EPA 8260B	07/24/07	07/19/07 14:40	7/20/2007 10:39

SAMPLE DETECTION SUMMARY

Client ID: 0803-Leachate **Lab ID: C709064-01**

Analyte	Results/Qual	MRL	Units	Method
1,4-Dichlorobenzene	6.6 D	5.0	ug/L	EPA 8260B
4-Methyl-2-pentanone	7.4 D, J	25	ug/L	EPA 8260B
Acetone	27 D	25	ug/L	EPA 8260B
Antimony	3.07	2.00	ug/L	EPA 6020
Barium	547	10.0	ug/L	EPA 6010B
Benzene	2.0 J, D	5.0	ug/L	EPA 8260B
Biochemical Oxygen Demand	97	2.0	mg/L	EPA 405.1
Chemical Oxygen Demand	980	10	mg/L	EPA 410.4
Cobalt	18.3	10.0	ug/L	EPA 6010B
Ethylbenzene	15 D	5.0	ug/L	EPA 8260B
Nickel	75.8	10.0	ug/L	EPA 6010B
Phenolics	0.03 J	0.05	mg/L	EPA 420.1
Phosphorus	2.8	0.030	mg/L	EPA 365.4
Sulfate as SO4	34	5.0	mg/L	EPA 375.4
Toluene	9.0 D	5.0	ug/L	EPA 8260B
Total Kjeldahl Nitrogen	570 D	25	mg/L	EPA 351.2
Total Suspended Solids	21	1.0	mg/L	EPA 160.2
Vanadium	39.7	10.0	ug/L	EPA 6010B
Xylenes (Total)	22 D	5.0	ug/L	EPA 8260B
Zinc	37.5	10.0	ug/L	EPA 6010B

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ANALYTICAL REPORT

Sample ID:	0803-Leachate	Project:	Republic-East Carolina Landfill leachate
Lab #:	C709064-01	Work Order #:	C709064
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	5
Anal. Batch:			
QC Batch:	7G19039		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.80 U, D	0.80	5.0	ug/L
1,1,1-Trichloroethane	71-55-6	1.2 U, D	1.2	5.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.4 U, D	1.4	5.0	ug/L
1,1,2-Trichloroethane	79-00-5	1.2 U, D	1.2	5.0	ug/L
1,1-Dichloroethane	75-34-3	0.45 U, D	0.45	5.0	ug/L
1,1-Dichloroethene	75-35-4	0.70 U, D	0.70	5.0	ug/L
1,2,3-Trichloropropane	96-18-4	1.6 U, D	1.6	5.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.95 U, D	0.95	5.0	ug/L
1,2-Dibromoethane	106-93-4	0.95 U, D	0.95	5.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.85 U, D	0.85	5.0	ug/L
1,2-Dichloroethane	107-06-2	1.8 U, D	1.8	5.0	ug/L
1,2-Dichloropropane	78-87-5	0.90 U, D	0.90	5.0	ug/L
1,4-Dichlorobenzene	106-46-7	**6.6** D	0.75	5.0	ug/L
2-Butanone	78-93-3	2.8 U, D	2.8	25	ug/L
2-Hexanone	591-78-6	1.2 U, D	1.2	25	ug/L
4-Methyl-2-pentanone	108-10-1	**7.4** D, J	1.8	25	ug/L
Acetone	67-64-1	**27** D	4.5	25	ug/L
Acrylonitrile	107-13-1	10 U, D	10	25	ug/L
Benzene	71-43-2	**2.0** J, D	0.60	5.0	ug/L
Bromochloromethane	74-97-5	0.95 U, D	0.95	5.0	ug/L
Bromodichloromethane	75-27-4	0.95 U, D	0.95	2.0	ug/L
Bromoform	75-25-2	1.8 U, D	1.8	5.0	ug/L
Bromomethane	74-83-9	1.0 U, D	1.0	5.0	ug/L
Carbon disulfide	75-15-0	0.60 U, D	0.60	25	ug/L
Carbon tetrachloride	56-23-5	1.9 U, D	1.9	5.0	ug/L
Chlorobenzene	108-90-7	0.80 U, D	0.80	5.0	ug/L
Chloroethane	75-00-3	2.0 U, D	2.0	5.0	ug/L
Chloroform	67-66-3	0.80 U, D	0.80	5.0	ug/L
Chloromethane	74-87-3	0.90 U, D	0.90	5.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.70 U, D	0.70	5.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.80 U, D	0.80	1.0	ug/L
Dibromochloromethane	124-48-1	0.90 U, D	0.90	5.0	ug/L
Dibromomethane	74-95-3	0.70 U, D	0.70	5.0	ug/L
Ethylbenzene	100-41-4	**15** D	0.85	5.0	ug/L
Iodomethane	74-88-4	1.2 U, D	1.2	10	ug/L
Methylene chloride	75-09-2	0.44 U, D	0.44	5.0	ug/L

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ANALYTICAL REPORT

Sample ID:	0803-Leachate	Project:	Republic-East Carolina Landfill leachate
Lab #:	C709064-01	Work Order #:	C709064
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/20/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	5
Anal. Batch:			
QC Batch:	7G19039		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.60 U, D	0.60	5.0	ug/L
Tetrachloroethene	127-18-4	1.2 U, D	1.2	5.0	ug/L
Toluene	108-88-3	**9.0** D	0.75	5.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.50 U, D	0.50	5.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.90 U, D	0.90	1.0	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	3.0 U, D	3.0	5.0	ug/L
Trichloroethene	79-01-6	1.2 U, D	1.2	5.0	ug/L
Trichlorofluoromethane	75-69-4	0.80 U, D	0.80	5.0	ug/L
Vinyl acetate	108-05-4	0.95 U, D	0.95	10	ug/L
Vinyl chloride	75-01-4	0.75 U, D	0.75	5.0	ug/L
Xylenes (Total)	1330-20-7	**22** D	1.0	5.0	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	37	50.0	75 %	67-125
Dibromofluoromethane	1868-53-7	38	50.0	75 %	69-111
Toluene-d8	2037-26-5	44	50.0	87 %	85-120

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ANALYTICAL REPORT

Sample ID: 0803-Leachate
Lab #: C709064-01

Project: Republic-East Carolina Landfill leachate
Work Order #: C709064
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	**3.07**		0.68	2.00	ug/L	EPA 6020	EPA 3005A	7G16018
Arsenic	7440-38-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7G11027
Barium	7440-39-3	**547**		0.20	10.0	ug/L	EPA 6010B	EPA 3005A	7G11027
Beryllium	7440-41-7	0.70	U	0.70	1.00	ug/L	EPA 6010B	EPA 3005A	7G11027
Cadmium	7440-43-9	0.50	U	0.50	1.00	ug/L	EPA 6010B	EPA 3005A	7G11027
Chromium	7440-47-3	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7G11027
Cobalt	7440-48-4	**18.3**		2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7G11027
Copper	7440-50-8	0.60	U	0.60	10.0	ug/L	EPA 6010B	EPA 3005A	7G11027
Lead	7439-92-1	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7G11027
Mercury	7439-97-6	0.11	U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7G12035
Nickel	7440-02-0	**75.8**		2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7G11027
Selenium	7782-49-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7G11027
Silver	7440-22-4	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7G11027
Thallium	7440-28-0	0.036	U	0.036	0.050	ug/L	EPA 6020	EPA 3005A	7G16018
Vanadium	7440-62-2	**39.7**		1.0	10.0	ug/L	EPA 6010B	EPA 3005A	7G11027
Zinc	7440-66-6	**37.5**		1.0	10.0	ug/L	EPA 6010B	EPA 3005A	7G11027

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ANALYTICAL REPORT

Sample ID:	0803-Leachate	Project:	Republic-East Carolina Landfill leachate
Lab #:	C709064-01	Work Order #:	C709064
		Matrix:	Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Biochemical Oxygen Demand	NA	**97**		2.0	2.0	mg/L	EPA 405.1	NO PREP	7G11020
Chemical Oxygen Demand	NA	**980**		10	10	mg/L	EPA 410.4	Same	7G16005
Cyanide (total)	57-12-5	0.010	U	0.010	0.040	mg/L	EPA 335.2	NO PREP	7G13011
Nitrate as N	14797-55-8	0.0066	U	0.0066	0.10	mg/L	EPA 353.2	Same	7G13003
Sulfate as SO4	14808-79-8	**34**		0.60	5.0	mg/L	EPA 375.4	NO PREP	7G24031
Total Suspended Solids	NA	**21**		1.0	1.0	mg/L	EPA 160.2	Same	7G16002

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ANALYTICAL REPORT

Sample ID: 0803-Leachate
Lab #: C709064-01

Project: Republic-East Carolina Landfill leachate
Work Order #: C709064
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Phenolics	NA	**0.03** J	0.02	0.05	mg/L	EPA 420.1	NO PREP	7G12004
Phosphorus	7723-14-0	**2.8**	0.020	0.030	mg/L	EPA 365.4	NO PREP	7G13005
Total Kjeldahl Nitrogen	NA	**570** D	22	25	mg/L	EPA 351.2	NO PREP	7G13004

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ANALYTICAL REPORT

Sample ID: 0803-Leachate
Lab #: C709064-01

Project: Republic-East Carolina Landfill leachate
Work Order #: C709064
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Oil & Grease (HEM)	C-007	3 U	3	5	mg/L	EPA 1664	EPA 1664A	7G11001

QUALITY CONTROL

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

Volatile Organic Compounds by GCMS - Quality Control

Batch 7G19039 - EPA 5030B_MS

Blank (7G19039-BLK1) Prepared: 07/19/2007 14:40 Analyzed: 07/20/2007 00:34

Chloromethane	0.18 U	1.0	ug/L
Vinyl chloride	0.15 U	1.0	ug/L
Bromomethane	0.21 U	1.0	ug/L
Chloroethane	0.40 U	1.0	ug/L
Trichlorofluoromethane	0.16 U	1.0	ug/L
1,1-Dichloroethene	0.14 U	1.0	ug/L
Acetone	0.90 U	5.0	ug/L
Iodomethane	0.23 U	2.0	ug/L
Carbon disulfide	0.12 U	5.0	ug/L
Methylene chloride	0.088 U	2.0	ug/L
Acrylonitrile	2.0 U	5.0	ug/L
trans-1,2-Dichloroethene	0.10 U	1.0	ug/L
1,1-Dichloroethane	0.090 U	1.0	ug/L
Vinyl acetate	0.19 U	2.0	ug/L
2-Butanone	0.56 U	5.0	ug/L
cis-1,2-Dichloroethene	0.14 U	1.0	ug/L
Bromochloromethane	0.19 U	1.0	ug/L
Chloroform	0.16 U	1.0	ug/L
1,1,1-Trichloroethane	0.24 U	1.0	ug/L
Carbon tetrachloride	0.38 U	1.0	ug/L
1,2-Dichloroethane	0.36 U	1.0	ug/L
Benzene	0.12 U	1.0	ug/L
Trichloroethene	**1.0**	1.0	ug/L
1,2-Dichloropropane	0.18 U	1.0	ug/L
Dibromomethane	0.14 U	1.0	ug/L
Bromodichloromethane	0.19 U	0.40	ug/L
cis-1,3-Dichloropropene	0.16 U	0.20	ug/L
4-Methyl-2-pentanone	0.36 U	5.0	ug/L
Toluene	0.15 U	1.0	ug/L
trans-1,3-Dichloropropene	0.18 U	0.20	ug/L
1,1,2-Trichloroethane	0.24 U	1.0	ug/L
Tetrachloroethene	**0.31** J	1.0	ug/L
2-Hexanone	0.24 U	5.0	ug/L
Dibromochloromethane	0.18 U	1.0	ug/L
1,2-Dibromoethane	0.19 U	1.0	ug/L
Chlorobenzene	0.16 U	1.0	ug/L
1,1,1,2-Tetrachloroethane	0.16 U	1.0	ug/L
Ethylbenzene	0.17 U	1.0	ug/L
Styrene	0.12 U	1.0	ug/L
Bromoform	0.36 U	1.0	ug/L
1,1,2,2-Tetrachloroethane	0.27 U	1.0	ug/L
1,2,3-Trichloropropane	0.32 U	1.0	ug/L
trans-1,4-Dichloro-2-butene	0.60 U	1.0	ug/L
1,4-Dichlorobenzene	0.15 U	1.0	ug/L
1,2-Dichlorobenzene	0.17 U	1.0	ug/L

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 7G19039 - EPA 5030B_MS										
Blank (7G19039-BLK1) Continued				Prepared: 07/19/2007 14:40 Analyzed: 07/20/2007 00:34						
1,2-Dibromo-3-chloropropane	0.19 U	1.0	ug/L							
Xylenes (Total)	0.21 U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*42*		*ug/L*	*50.0*		*83*	*69-111*			
Surrogate: Toluene-d8	*45*		*ug/L*	*50.0*		*90*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*39*		*ug/L*	*50.0*		*78*	*67-125*			
LCS (7G19039-BS1)				Prepared: 07/19/2007 14:40 Analyzed: 07/20/2007 01:01						
1,1-Dichloroethene	16	1.0	ug/L	20.0		79	57-141			
Benzene	21	1.0	ug/L	20.0		107	76-116			
Trichloroethene	22 B	1.0	ug/L	20.0		112	81-118			
Toluene	20	1.0	ug/L	20.0		100	77-120			
Chlorobenzene	20	1.0	ug/L	20.0		101	75-115			
Matrix Spike (7G19039-MS1)		**Source: C710433-10**		Prepared: 07/19/2007 14:40 Analyzed: 07/20/2007 01:27						
1,1-Dichloroethene	15	1.0	ug/L	20.0	0.14 U	73	57-141			
Benzene	21	1.0	ug/L	20.0	0.12 U	103	76-116			
Trichloroethene	21 B	1.0	ug/L	20.0	0.58	103	81-118			
Toluene	17	1.0	ug/L	20.0	0.15 U	84	77-120			
Chlorobenzene	18	1.0	ug/L	20.0	0.16 U	90	75-115			
Matrix Spike Dup (7G19039-MSD1)		**Source: C710433-10**		Prepared: 07/19/2007 14:40 Analyzed: 07/20/2007 01:53						
1,1-Dichloroethene	15	1.0	ug/L	20.0	0.14 U	73	57-141	0.4	12	
Benzene	21	1.0	ug/L	20.0	0.12 U	107	76-116	4	14	
Trichloroethene	22 B	1.0	ug/L	20.0	0.58	105	81-118	2	11	
Toluene	19	1.0	ug/L	20.0	0.15 U	93	77-120	10	17	
Chlorobenzene	19	1.0	ug/L	20.0	0.16 U	96	75-115	7	12	
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7G11027 - EPA 3005A										
Blank (7G11027-BLK1)				Prepared: 07/11/2007 14:08 Analyzed: 07/13/2007 10:42						
Arsenic	2.0 U	10.0	ug/L							
Barium	0.20 U	10.0	ug/L							
Beryllium	0.70 U	1.00	ug/L							
Cadmium	0.50 U	1.00	ug/L							
Chromium	2.0 U	10.0	ug/L							
Cobalt	2.0 U	10.0	ug/L							
Copper	0.60 U	10.0	ug/L							
Lead	2.0 U	10.0	ug/L							
Nickel	2.0 U	10.0	ug/L							
Selenium	2.0 U	10.0	ug/L							
Silver	2.0 U	10.0	ug/L							
Vanadium	1.0 U	10.0	ug/L							
Zinc	1.0 U	10.0	ug/L							
LCS (7G11027-BS1)				Prepared: 07/11/2007 14:08 Analyzed: 07/13/2007 10:55						
Arsenic	514	10.0	ug/L	500		103	82-117			
Barium	514	10.0	ug/L	500		103	72-125			
Beryllium	264	1.00	ug/L	250		106	75-121			

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7G11027 - EPA 3005A										
LCS (7G11027-BS1) Continued				Prepared: 07/11/2007 14:08 Analyzed: 07/13/2007 10:55						
Cadmium	260	1.00	ug/L	250		104	72-120			
Chromium	512	10.0	ug/L	500		102	78-119			
Cobalt	511	10.0	ug/L	500		102	76-117			
Copper	251	10.0	ug/L	250		100	80-117			
Lead	515	10.0	ug/L	500		103	72-121			
Nickel	515	10.0	ug/L	500		103	78-116			
Selenium	522	10.0	ug/L	500		104	82-127			
Silver	49.7	10.0	ug/L	50.0		99	80-128			
Vanadium	250	10.0	ug/L	250		100	78-117			
Zinc	512	10.0	ug/L	500		102	80-120			
Matrix Spike (7G11027-MS1)		**Source: C707262-01**		Prepared: 07/11/2007 14:08 Analyzed: 07/13/2007 11:13						
Arsenic	347	10.0	ug/L	500	4.4	69	64-126			
Barium	452	10.0	ug/L	500	40.8	82	74-119			
Beryllium	176	1.00	ug/L	250	0.70 U	70	70-131			
Cadmium	171	1.00	ug/L	250	0.50 U	68	68-121			
Chromium	285 QM-07	10.0	ug/L	500	2.0 U	57	73-120			QM-07
Cobalt	336 QM-07	10.0	ug/L	500	2.0 U	67	76-120			QM-07
Copper	165 QM-07	10.0	ug/L	250	0.60 U	66	75-123			QM-07
Lead	338	10.0	ug/L	500	2.0 U	68	68-126			
Nickel	334	10.0	ug/L	500	2.0 U	67	64-126			
Selenium	329	10.0	ug/L	500	2.0 U	66	65-129			
Silver	31.4 QM-07	10.0	ug/L	50.0	2.0 U	63	69-121			QM-07
Vanadium	1.0 QM-07, L	10.0	ug/L	250	1.0 U		71-130			QM-07
Zinc	332	10.0	ug/L	500	1.0 U	66	63-131			
Matrix Spike Dup (7G11027-MSD1)		**Source: C707262-01**		Prepared: 07/11/2007 14:08 Analyzed: 07/13/2007 11:20						
Arsenic	350	10.0	ug/L	500	4.4	69	64-126	0.7	12	
Barium	453	10.0	ug/L	500	40.8	82	74-119	0.2	11	
Beryllium	176	1.00	ug/L	250	0.70 U	70	70-131	0.3	21	
Cadmium	170	1.00	ug/L	250	0.50 U	68	68-121	0.5	12	
Chromium	286 QM-07	10.0	ug/L	500	2.0 U	57	73-120	0.5	10	QM-07
Cobalt	337 QM-07	10.0	ug/L	500	2.0 U	67	76-120	0.5	17	QM-07
Copper	166 QM-07	10.0	ug/L	250	0.60 U	66	75-123	0.5	16	QM-07
Lead	339	10.0	ug/L	500	2.0 U	68	68-126	0.4	19	
Nickel	332	10.0	ug/L	500	2.0 U	66	64-126	0.5	12	
Selenium	330	10.0	ug/L	500	2.0 U	66	65-129	0.3	10	
Silver	32.1 QM-07	10.0	ug/L	50.0	2.0 U	64	69-121	2	12	QM-07
Vanadium	1.0 QM-07, L	10.0	ug/L	250	1.0 U		71-130		16	QM-07
Zinc	333	10.0	ug/L	500	1.0 U	67	63-131	0.3	24	
Batch 7G12035 - EPA 7470A										
Blank (7G12035-BLK1)				Prepared: 07/12/2007 14:09 Analyzed: 07/13/2007 14:01						
Mercury	0.11 U	0.20	ug/L							
LCS (7G12035-BS1)				Prepared: 07/12/2007 14:09 Analyzed: 07/13/2007 14:04						
Mercury	4.83	0.20	ug/L	5.00		97	87-123			
Matrix Spike (7G12035-MS1)		**Source: C710106-02**		Prepared: 07/12/2007 14:09 Analyzed: 07/13/2007 14:15						

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7G12035 - EPA 7470A										
Matrix Spike (7G12035-MS1) Continued		**Source: C710106-02**		Prepared: 07/12/2007 14:09 Analyzed: 07/13/2007 14:15						
Mercury	1.79 QM-05	0.20	ug/L	5.00	0.15	33	63-132			QM-05
Matrix Spike Dup (7G12035-MSD1)		**Source: C710106-02**		Prepared: 07/12/2007 14:09 Analyzed: 07/13/2007 14:18						
Mercury	1.74 QM-05	0.20	ug/L	5.00	0.15	32	63-132	3	10	QM-05
Post Spike (7G12035-PS1)		**Source: C710106-02**		Prepared: 07/12/2007 14:09 Analyzed: 07/13/2007 14:20						
Mercury	5.67	0.20	ug/L	5.00	0.15	110	85-115			
Batch 7G16018 - EPA 3005A										
Blank (7G16018-BLK1)				Prepared: 07/16/2007 12:27 Analyzed: 07/17/2007 12:16						
Antimony	0.68 U	2.00	ug/L							
Thallium	0.036 U	0.050	ug/L							
LCS (7G16018-BS1)				Prepared: 07/16/2007 12:27 Analyzed: 07/17/2007 15:07						
Antimony	25.4	2.00	ug/L	25.0		102	85-115			
Thallium	23.6	0.050	ug/L	25.0		95	85-115			
Matrix Spike (7G16018-MS1)		**Source: C709032-03**		Prepared: 07/16/2007 12:27 Analyzed: 07/17/2007 12:23						
Antimony	28.6	2.00	ug/L	25.0	0.68 U	115	85-115			
Thallium	27.3	0.050	ug/L	25.0	0.058	109	85-115			
Matrix Spike Dup (7G16018-MSD1)		**Source: C709032-03**		Prepared: 07/16/2007 12:27 Analyzed: 07/17/2007 12:26						
Antimony	30.7 QM-05	2.00	ug/L	25.0	0.68 U	123	85-115	7	20	QM-05
Thallium	29.7 QM-05	0.050	ug/L	25.0	0.058	119	85-115	8	20	QM-05
Classical Chemistry Parameters - Quality Control										
Batch 7G11020 - NO PREP										
Blank (7G11020-BLK1)				Prepared: 07/11/2007 13:03 Analyzed: 07/16/2007 09:09						
Biochemical Oxygen Demand	2.0 U	2.0	mg/L							
LCS (7G11020-BS1)				Prepared: 07/11/2007 13:03 Analyzed: 07/16/2007 09:09						
Biochemical Oxygen Demand	200	2.0	mg/L	198		103	82-118			
Duplicate (7G11020-DUP1)		**Source: C710023-02**		Prepared: 07/11/2007 13:03 Analyzed: 07/16/2007 09:09						
Biochemical Oxygen Demand	2.0 U	2.0	mg/L		2.0 U				25	
Batch 7G13011 - NO PREP										
Blank (7G13011-BLK1)				Prepared: 07/13/2007 10:02 Analyzed: 07/18/2007 12:39						
Cyanide (total)	0.010 U	0.040	mg/L							
LCS (7G13011-BS1)				Prepared: 07/13/2007 10:02 Analyzed: 07/18/2007 12:39						
Cyanide (total)	0.24	0.040	mg/L	0.250		96	85-115			
Matrix Spike (7G13011-MS1)		**Source: C709118-06**		Prepared: 07/13/2007 10:02 Analyzed: 07/18/2007 12:39						
Cyanide (total)	0.25	0.040	mg/L	0.250	0.010 U	99	85-115			
Matrix Spike Dup (7G13011-MSD1)		**Source: C709118-06**		Prepared: 07/13/2007 10:02 Analyzed: 07/18/2007 12:39						
Cyanide (total)	0.25	0.040	mg/L	0.250	0.010 U	101	85-115	2	20	
Batch 7G16002 - Same										
Blank (7G16002-BLK1)				Prepared: 07/16/2007 07:04 Analyzed: 07/17/2007 09:00						
Total Suspended Solids	1.0 U	1.0	mg/L							
LCS (7G16002-BS1)				Prepared: 07/16/2007 07:04 Analyzed: 07/17/2007 09:00						
Total Suspended Solids	89	1.0	mg/L	80.0		111	82-119			

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Classical Chemistry Parameters - Quality Control										
Batch 7G16002 - Same										
Duplicate (7G16002-DUP1)		**Source: C710091-01**		Prepared: 07/16/2007 07:04 Analyzed: 07/17/2007 09:00						
Total Suspended Solids	210	1.0	mg/L		200			2	10	
Batch 7G16005 - Same										
Blank (7G16005-BLK1)				Prepared: 07/16/2007 08:04 Analyzed: 07/16/2007 13:30						
Chemical Oxygen Demand	10 U	10	mg/L							
LCS (7G16005-BS1)				Prepared: 07/16/2007 08:04 Analyzed: 07/16/2007 13:30						
Chemical Oxygen Demand	520	10	mg/L	500		104	90-110			
Matrix Spike (7G16005-MS1)		**Source: C710022-01**		Prepared: 07/16/2007 08:04 Analyzed: 07/16/2007 13:30						
Chemical Oxygen Demand	540	10	mg/L	500	43	100	90-110			
Matrix Spike Dup (7G16005-MSD1)		**Source: C710022-01**		Prepared: 07/16/2007 08:04 Analyzed: 07/16/2007 13:30						
Chemical Oxygen Demand	560	10	mg/L	500	43	103	90-110	3	15	
Batch 7G24031 - NO PREP										
Blank (7G24031-BLK1)				Prepared: 07/24/2007 14:57 Analyzed: 07/24/2007 16:00						
Sulfate as SO4	**1.1 J**	5.0	mg/L							
LCS (7G24031-BS1)				Prepared: 07/24/2007 14:57 Analyzed: 07/24/2007 15:32						
Sulfate as SO4	19	5.0	mg/L	20.0		97	80-120			
LCS (7G24031-BS2)				Prepared: 07/24/2007 14:57 Analyzed: 07/24/2007 15:36						
Sulfate as SO4	20	5.0	mg/L	20.0		101	80-120			
LCS (7G24031-BS3)				Prepared: 07/24/2007 14:57 Analyzed: 07/24/2007 15:41						
Sulfate as SO4	21	5.0	mg/L	20.0		103	80-120			
LCS (7G24031-BS4)				Prepared: 07/24/2007 14:57 Analyzed: 07/24/2007 15:46						
Sulfate as SO4	21	5.0	mg/L	20.0		106	80-120			
Matrix Spike (7G24031-MS1)		**Source: C710703-02**		Prepared: 07/24/2007 14:57 Analyzed: 07/24/2007 16:00						
Sulfate as SO4	110 QM-01	5.0	mg/L	20.0	100	30	80-120			QM-01
Matrix Spike Dup (7G24031-MSD1)		**Source: C710703-02**		Prepared: 07/24/2007 14:57 Analyzed: 07/24/2007 16:00						
Sulfate as SO4	100 QM-01	5.0	mg/L	20.0	100	10	80-120	4	25	QM-01

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Classical Chemistry Parameters - Quality Control										
Batch 7G11001 - EPA 1664A										
Blank (7G11001-BLK1)				Prepared: 07/11/2007 11:04 Analyzed: 07/12/2007 08:13						
Oil & Grease (HEM)	3 U	5	mg/L							
LCS (7G11001-BS1)				Prepared: 07/11/2007 11:04 Analyzed: 07/12/2007 08:13						
Oil & Grease (HEM)	40.0	5	mg/L	40.0		100	78-114			
Matrix Spike (7G11001-MS1)		**Source: B706086-01**		Prepared: 07/11/2007 11:04 Analyzed: 07/12/2007 08:13						
Oil & Grease (HEM)	39.5	5	mg/L	40.0	3 U	99	50-150			
Matrix Spike Dup (7G11001-MSD1)		**Source: B706086-01**		Prepared: 07/11/2007 11:04 Analyzed: 07/12/2007 08:13						
Oil & Grease (HEM)	39.9	5	mg/L	40.0	3 U	100	50-150	1	18	

QUALITY CONTROL

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Classical Chemistry Parameters - Quality Control										
Batch 7G12004 - NO PREP										
Blank (7G12004-BLK1)				Prepared: 07/12/2007 09:07 Analyzed: 07/12/2007 18:15						
Phenolics	0.02 U	0.05	mg/L							
Blank (7G12004-BLK2)				Prepared: 07/12/2007 12:32 Analyzed: 07/12/2007 18:15						
Phenolics	0.02 U	0.05	mg/L							
Blank (7G12004-BLK3)				Prepared: 07/13/2007 08:50 Analyzed: 07/13/2007 14:48						
Phenolics	0.02 U	0.05	mg/L							
LCS (7G12004-BS1)				Prepared: 07/12/2007 09:07 Analyzed: 07/12/2007 18:15						
Phenolics	0.48	0.05	mg/L	0.500		96	79-104			
LCS (7G12004-BS2)				Prepared: 07/12/2007 12:32 Analyzed: 07/12/2007 18:15						
Phenolics	0.45	0.05	mg/L	0.500		89	79-104			
LCS (7G12004-BS3)				Prepared: 07/13/2007 08:50 Analyzed: 07/13/2007 14:48						
Phenolics	0.45	0.05	mg/L	0.500		90	79-104			
Matrix Spike (7G12004-MS1)		**Source: A703334-01**		Prepared: 07/12/2007 09:07 Analyzed: 07/12/2007 18:15						
Phenolics	0.47	0.05	mg/L	0.500	0.02 U	93	79-104			
Matrix Spike Dup (7G12004-MSD1)		**Source: A703334-01**		Prepared: 07/12/2007 09:07 Analyzed: 07/12/2007 18:15						
Phenolics	0.47	0.05	mg/L	0.500	0.02 U	94	79-104	0.6	10	
Batch 7G13004 - NO PREP										
Blank (7G13004-BLK1)				Prepared: 07/13/2007 13:04 Analyzed: 07/14/2007 10:59						
Total Kjeldahl Nitrogen	0.04 U	0.05	mg/L							
LCS (7G13004-BS1)				Prepared: 07/13/2007 13:04 Analyzed: 07/14/2007 11:00						
Total Kjeldahl Nitrogen	2.4	0.05	mg/L	2.50		94	86-108			
Matrix Spike (7G13004-MS1)		**Source: A702734-01**		Prepared: 07/13/2007 13:04 Analyzed: 07/14/2007 11:03						
Total Kjeldahl Nitrogen	3.4	0.05	mg/L	2.50	1.0	95	86-108			
Matrix Spike Dup (7G13004-MSD1)		**Source: A702734-01**		Prepared: 07/13/2007 13:04 Analyzed: 07/14/2007 11:04						
Total Kjeldahl Nitrogen	3.4	0.05	mg/L	2.50	1.0	94	86-108	0.5	14	
Batch 7G13005 - NO PREP										
Blank (7G13005-BLK1)				Prepared: 07/13/2007 13:04 Analyzed: 07/14/2007 13:28						
Phosphorus	0.020 U	0.030	mg/L							
LCS (7G13005-BS1)				Prepared: 07/13/2007 13:04 Analyzed: 07/14/2007 13:29						
Phosphorus	2.4	0.030	mg/L	2.50		95	89-107			
Matrix Spike (7G13005-MS1)		**Source: A702734-01**		Prepared: 07/13/2007 13:04 Analyzed: 07/14/2007 14:35						
Phosphorus	8.2 QL-01, D	0.15	mg/L	2.50	6.1	86	89-107			QL-01
Matrix Spike Dup (7G13005-MSD1)		**Source: A702734-01**		Prepared: 07/13/2007 13:04 Analyzed: 07/14/2007 14:36						
Phosphorus	8.2 QL-01, D	0.15	mg/L	2.50	6.1	86	89-107	0.2	10	QL-01

NOTES AND DEFINITIONS

B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
D	Data reported from a dilution
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QL-01	Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
U	Analyte included in the analysis, but not detected

LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
8260B Appendix 1	Water	NC	591
Antimony Total EPA 6020	Water	NC	591
Arsenic Total EPA 6010B	Water	NC	591
Barium Total EPA 6010B	Water	NC	591
Beryllium Total EPA 6010B	Water	NC	591
BOD 405.1	Water	NC	591
Cadmium Total EPA 6010B	Water	NC	591
Chromium Total EPA 6010B	Water	NC	591
Cobalt Total EPA 6010B	Water	NC	591
COD 410.4	Water	NC	591
Copper Total EPA 6010B	Water	NC	591
Cyanide Total 335.2	Water	NC	591
Lead Total EPA 6010B	Water	NC	591
Mercury Total EPA 7470A	Water	NC	591
Nickel Total EPA 6010B	Water	NC	591
Nitrate Calc 353.2	Water	NC	591
Selenium Total EPA 6010B	Water	NC	591
Silver Total EPA 6010B	Water	NC	591
Thallium Total EPA 6020	Water	NC	591
TSS 160.2	Water	NC	591
Vanadium Total EPA 6010B	Water	NC	591
Zinc Total EPA 6010B	Water	NC	591
O&G 1664A	Water	NC	442
Phenols 420.1	Water	NC	424
Phosphorus 365.4	Water	NC	424
TKN 351.2	Water	NC	424

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

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Client Name: Golder Associates, Inc. (GO007)	Project Number: 053-6620.007.100
Address: The Wingate Building 4900 Koger Blvd., Suite 140	Project Name/Desc: Republic-East Carolina Landfill leachate
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 852-4903 / Fax: (336) 852-4904	Reporting Contact: Rachel Kirkman
Sampler(s) Name, Affiliation (Print): Client / Golder Associates of NC, Inc.	Billing Contact: Accounts Payable
Sampler(s) Signature: B. Pasper / K. Higgs	Facility # (if required): 0803

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C709064

Requested Analyses

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,Hg,Ni,Pb,Sb,Se,Tl,V,Zn	BOD 405.1	COD 410.4	Cyanide Total 335.2	Nitrate Calc 353.2	Nitrite as N 353.2	NOX 353.2,P,TKN 351.2	O&G 413.1	Phenols 420.1	Sample Comments
	0803-Leachate	7-10-2007	10:51	G	Water	13	X	X	X	X	X	X	X	X	X	X	NC Leachate List (see below) + O&G, Total Phenols, Cyanide, TDS, TKN, + Mercury
																	NC Leachate List:
																	Appx I NC Metals, VOCs, BOD, Nitrate, Sulfate, COD, Phenols

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By: CARY	Date/Time: 6/29/07 9:30	Relinquished By:	Date/Time: 7-10-2007 / 14:30	Received By:	Date/Time: 7/10/07 14:30
Comments: 1. Please provide Level 2 Data Report 2. Unit Rates per "Basic Ordering Agreement for Lab Services" Dated April 9, 2007 + Updated ECO Price List 2007 3. MDL Reports 4. Need 7-10 Day TAT (No Surcharge) 5. Estimated Fee: $456 (Gen. Turn Rates)		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: C-171 3.4°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

LOA per Benjamin Pasper

Approved By

WORK ORDER

Printed: 7/26/2007 2:11:55PM

C709064

ENCO Cary

Sample Receipt Conditions

Client:	**Golder Associates, Inc. (GO007)**	**Lab Project Mgr:**	**Chuck Smith**
Project:	**Republic-East Carolina Landfill leachate**	**Project Number:**	**053-6620.007.100**
PO #:			

Report To:

Golder Associates, Inc. (GO007)
Rachel Kirkman
The Wingate Building 4900 Koger Blvd., Suite 140
Greensboro, NC 27407
Phone: (336) 852-4903
Fax: (336) 852-4904

Invoice To:

Golder Associates, Inc. (GO007)
Accounts Payable
The Wingate Building 4900 Koger Blvd., Suite 140
Greensboro, NC 27407
Phone :(804) 358-7900
Fax: 804-358-2900

Received By:	Derek Williams	Date Received:	10-Jul-07 14:00
Logged In By:	Derek Williams	Date Logged In:	10-Jul-07 16:36

Workorder Comments:

C - 171 received at 3.4°C

Containers Intact	Y	Containers Properly Preserved	Y	Proper Containers Received	Y	All Samples in PreLog Received	Y	COC/Labels Agree	Y
Custody Seals Intact	Y	Volatile Containers Preserved	Y	Volatile Containers Headspace Free	Y	Aqueous Samples Checked for Residual Cl	N		

Reviewed By

Date

GOLDER ASSOCIATES NC, INC.
QUALITY ASSURANCE & QUALITY CONTROL
LABORATORY DATA REVIEW

Project Name: East Carolina Landfill Leachate

Project Reference Number: 053-6620.007.100

Sampling Event Date: July 10, 2007

Review Date: August 17, 2007 *Initials:* JD

Review Date: August 29, 2007 *Initials:* BD 8-30-07

Report #: C709064

Person(s) performing the review are to initial each item on this form as acknowledgement of data acceptance, or as acknowledgement of a review issue. In the case of the latter, a brief explanation should follow the applicable item.

Golder Associates Inc. has reviewed the laboratory certificates of analysis, chain-of-custody form, and laboratory provided sample group quality assurance and quality control data for the above referenced sample group to identify potential bias or inaccuracy, in general accordance with the following United States Environmental Protection Agency documents:

- Region III Modifications to Functional Guidelines for Organic Data Review Multi-Media, Multi-Concentration, September 1994;
- Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, April 1993; and
- Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, July 1998.

COMPLIANCE ANALYTE LIST(S) (check all that apply)

___ NC Closed Facility/C & D List

___ NC Appendix I

___ NC Appendix I + Detects

___ NC Appendix II

X NC Subtitle D Leachate List

Other: O&G, phenols, cyanide, TKN, BOD, COD, nitrate, sulfate, TSS, mercury, phosphorus

1.0 CHAIN OF CUSTODY (COC) REVIEW

JD BD COC was properly signed by all parties.

JD BD Correct project name and number are on the form.

JD BD Sample receipt condition at laboratory was acceptable.

JD BD Each sample and blank submitted for analysis appears in the report.

Notes: _____

2.0 SAMPLE HOLDING TIMES

JD BD Holding times for extraction and/or analysis were met for each analytical Method (see below for reference).

Notes: _____

Review Criteria		
Method	**Analytes**	**Holding Time**
SW-846 Method 8260 and 8011	VOCs	14 days
SW-846 Methods 8270, 8080, 8081, 8082, and 8151	SVOCs, PCBs, pesticides and herbicides	7 days for extraction, 40 days from extraction for analysis
SW-846 Methods 6000 and 7000 Series	Metals except mercury	6 months (no temperature requirements)
SW-846 Method 7470	Mercury	28 days
SW-846 Method 376.1	Sulfide	7 days
SW-846 Method 9010	Cyanide	14 days
EPA Method 300	Nitrate/Sulfate	48 hours/28 days
EPA Method 405.1	BOD	48 hours
EPA Method 410.4	COD	28 days
EPA Method 365.4	Phosphorous	28 days

3.0 LABORATORY QUALITY CONTROL REVIEW

JD BD Laboratory analyzed at least one internal blank for each method, where applicable.

JD BD Laboratory blank is interference-free.

- ***Trichloroethane was detected in a method blank (7G19039-BLK1) at a concentration of 1.0 ug/L.***
- ***Tetrachloroethane was detected in a method blank (7G19039-BLK1) at an estimated concentration of 0.31 µg/L (J).***
- ***Sulfate was detected in a method blank (7G24031-BLK1) at an estimated concentration of 1.1 ug/L (J).***

JD BD Surrogate recoveries are provided for each analytical method, where applicable.

JD BD Surrogate recoveries for each method are within the acceptable limits (i.e., at least 50% of the surrogates were within range).

JD BD MS/MSD/LCS data results are provided for each analytical method.

JD BD MS/MSD/LCS recoveries for each method are within the acceptable limits (i.e., at least 1 of the 3 were within range).

- ***The spike recoveries were outside acceptance limits for the MS and MSD for chromium, cobalt, copper, silver and vanadium and was flagged with a "QM-07" flag.***

The batch was accepted based on acceptable LCS recovery.

- ***The spike recovery was outside acceptance limits for the MS and MSD for mercury due to matrix interference and was flagged with a "QM-05" flag. The LCS was within acceptance limits showing that the laboratory is in control and the data is acceptable.***
- ***The spike recoveries were outside acceptance limits for the MSD for antimony and thallium due to matrix interference and was flagged with a "QM-05" flag. The LCS was within acceptance limits showing that the laboratory is in control and the data is acceptable.***
- ***The spike recoveries for sulfate was outside of established control limits due to sample matrix interference and was flagged with a "QM-01" flag.***
- ***The sample results for the QC batch for phosphorus were accepted based on LCS percent recovery and RPD values and was flagged with a "QL-01" flag. The data is reported from a dilution.***

Notes: _____

4.0 ANALYTE LISTS/METHODS

JD BD The proper number of constituents are present for each analyte list as identified above (including detects where applicable).

JD BD Proper EPA SW-846 analytical methods were used for analysis.

Notes: _____

5.0 DATA REPORTING

JD BD All analytical reporting associated with the event was performed by the contracted lab.

JD BD Trip, field and/or equipment, and laboratory blank results have all been reported. All detects for blanks are listed below by constituent. All laboratory method blanks, if any, have been 'flagged' with a 'B' where detected in other samples as appropriate and a laboratory narrative was provided. If the sample was flagged by the laboratory and is not within 5X of the concentration in the blank (or 10X for commonly detected laboratory contaminants-acetone, methylene chloride and phthalates), list below with explanation if flags should be removed. If flags need to be added for samples, also list below.

- ***Trichloroethane was detected in a method blank (7G19039-BLK1) at a concentration of 1.0 ug/L.***
- ***Tetrachloroethane was detected in a method blank (7G19039-BLK1) at an estimated concentration of 0.31 µg/L (J).***
- ***Sulfate was detected in a method blank (7G24031-BLK1) at an estimated concentration of 1.1 ug/L (J).***

JD BD It is clear from the laboratory report that samples have or have not been diluted during analysis, and if the samples have been diluted, the result is reported as a multiple of the dilution (e.g., a sample diluted 10x resulting in an analytical detection of 1.0 should be reported as 10). Those that have been diluted are listed below with the dilution factor.

- ***VOCs diluted 5x***

JD BD The report provides the reporting limit for each constituent.

JD BD The results were reported at or below their proper reporting limits (e.g., MDLs with SWSLs reported). Those that are not reported correctly are listed below (by constituent) with the proper reporting limit listed beside them. State if the reporting limit error is due to dilutions.

NA NA No organic constituents were reported above their respective SWSLs, and no inorganic or organic constituents were reported above their respective NC 2L Drinking Water Standards/GWPS in wells, or field/equipment/trip blanks, or above applicable surface water standards in surface water points.

- ***Not applicable for leachate***

JD BD No inorganic and organic constituents were detected in a well or surface water point at concentrations outside of their historical range (more than 5X previous concentrations or first-time detections).

JD ___ Other report issues/Communications with laboratory/etc.:

Notes: _____

APPENDIX III

STATISTICAL EVALUATION WORKSHEETS

Project Name: Republic - East Carolina LF
Project No: 053-6620007
Date: 7/9/07

Analyte: Barium

Sample No.	Sample Date	Location	Concentration (ug/L)	Quantitation Limit (ug/L)
1	10/28/98	MW-2	ND, QL = 500	500
2	04/07/99	MW-2	ND, QL = 500	500
3	12/08/99	MW-2	ND, QL = 500	500
4	04/27/00	MW-2	ND, QL = 500	500
5	10/18/00	MW-2	ND, QL = 500	500
6	04/19/01	MW-2	ND, QL = 500	500
7	12/24/01	MW-2	ND, QL = 500	500
8	04/23/02	MW-2	ND, QL = 500	500
9	10/23/02	MW-2	ND, QL = 500	500
10	04/01/03	MW-2	ND, QL = 500	500
11	10/28/03	MW-2	ND, QL = 500	500
12	04/27/04	MW-2	500	500
13	10/26/04	MW-2	ND, QL = 500	500
14	03/15/05	MW-2	500	500
15	07/12/05	MW-2	ND, QL = 500	500
16	01/19/06	MW-2	523	500
17	07/11/06	MW-2	517	500
18	01/17/07	MW-2	516	10
19	07/09/07	MW-2	448	10

Number of Data	19
Number of Truncated Data	13
Percentage of Truncated Data	68%

Nonparametric Prediction Interval: **523**

Project Name: Republic - East Carolina LF
Project No: 053-6620007
Date: 7/9/07

Analyte: Beryllium

Sample No.	Sample Date	Location	Concentration (ug/L)	Quantitation Limit (ug/L)
1	10/28/98	MW-2	ND, QL = 2	2
2	04/07/99	MW-2	ND, QL = 2	2
3	12/08/99	MW-2	ND, QL = 2	2
4	04/27/00	MW-2	ND, QL = 2	2
5	10/18/00	MW-2	ND, QL = 2	2
6	04/19/01	MW-2	ND, QL = 2	2
7	12/24/01	MW-2	ND, QL = 2	2
8	04/23/02	MW-2	ND, QL = 2	2
9	10/23/02	MW-2	ND, QL = 2	2
10	04/01/03	MW-2	ND, QL = 2	2
11	10/28/03	MW-2	ND, QL = 2	2
12	04/27/04	MW-2	ND, QL = 2	2
13	10/26/04	MW-2	ND, QL = 2	2
14	03/15/05	MW-2	ND, QL = 2	2
15	07/12/05	MW-2	ND, QL = 2	2
16	01/19/06	MW-2	ND, QL = 2	2
17	07/11/06	MW-2	ND, QL = 2	2
18	01/17/07	MW-2	1.00	1
19	07/09/07	MW-2	0.70	1

Number of Data	19
Number of Truncated Data	17
Percentage of Truncated Data	89%

Nonparametric Prediction Interval: **1.00**

Project Name: Republic - East Carolina LF
Project No: 053-6620007
Date: 7/5/07

Analyte: Beryllium (MW-7 Intrawell)

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	10/28/98	MW-7	ND		1
2	04/07/99	MW-7	2		1
3	12/08/99	MW-7	ND		1
4	04/27/00	MW-7	ND		1
5	10/18/00	MW-7	ND		1
6	04/19/01	MW-7	ND		1
7	12/24/01	MW-7	ND		1
8	04/23/02	MW-7	ND		1
9	10/23/02	MW-7	3		1
10	04/01/03	MW-7	ND		1
11	10/28/03	MW-7	3		1
12	04/27/04	MW-7	3		1
13	10/26/04	MW-7	3		1
14	03/15/05	MW-7	ND		1
15	07/12/05	MW-7	2.2		1
16	01/19/06	MW-7	2		1
17	07/11/06	MW-7	ND		1
18	01/17/07	MW-7	1.90		1

Number of Data	18
Number of Truncated Data	10
Percentage of Truncated Data	56%

Nonparametric Prediction Interval: **3.00**

Project Name: Republic - East Carolina LF
Project No: 053-6620007
Date: 7/9/07

Analyte: Cobalt

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	09/03/93	GW-2	80		10
2	09/10/93	GW-2	70		10
3	09/16/93	GW-2	ND, QL = 10		10
4	09/22/93	GW-2	ND, QL = 10		10
5	10/04/93	GW-2	ND, QL = 10		10
6	01/20/94	GW-2	40		10
7	07/28/94	GW-2	30		10
8	01/26/95	GW-2	10		10
9	07/26/95	GW-2	10		10
10	01/24/96	GW-2	ND, QL = 10		10
11	10/10/96	GW-2	ND, QL = 10		10
12	04/16/97	GW-2	ND, QL = 10		10
13	10/23/97	GW-2	60		10
14	04/28/98	GW-2	10		10
15	10/28/98	GW-2	ND, QL = 10		10
16	04/07/99	GW-2	ND, QL = 10		10
17	12/08/99	GW-2	10		10
18	04/27/00	GW-2	ND, QL = 10		10
19	10/18/00	GW-2	ND, QL = 10		10
20	04/19/01	GW-2	ND, QL = 10		10
21	12/24/01	GW-2	ND, QL = 10		10
22	04/23/02	GW-2	ND, QL = 10		10
23	10/23/02	GW-2	ND, QL = 10		10
24	04/01/03	GW-2	10		10
25	10/28/03	GW-2	ND, QL = 10		10
26	04/27/04	GW-2	ND, QL = 10		10
27	10/26/04	GW-2	ND, QL = 10		10
28	03/15/05	GW-2	10		10
29	07/12/05	GW-2	ND, QL = 10		10
30	01/19/06	GW-2	11.9		10
31	07/11/06	GW-2	12.5		10
32	01/17/07	GW-2	10.3		10
33	07/09/07	GW-2	10.0		10

Number of Data	33
Number of Truncated Data	18
Percentage of Truncated Data	55%

Nonparametric Prediction Interval: **80**

Project Name: Republic - East Carolina LF
Project No: 053-66920007
Date: 7/9/07

Analyte: Thallium

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	10/28/98	MW-2	ND, QL = 10		10
2	04/07/99	MW-2	ND, QL = 10		10
3	12/08/99	MW-2	ND, QL = 10		10
4	04/27/00	MW-2	ND, QL = 10		10
5	10/18/00	MW-2	ND, QL = 10		10
6	04/19/01	MW-2	ND, QL = 10		10
7	12/24/01	MW-2	ND, QL = 10		10
8	04/23/02	MW-2	ND, QL = 10		10
9	10/23/02	MW-2	ND, QL = 10		10
10	04/01/03	MW-2	ND, QL = 10		10
11	10/28/03	MW-2	ND, QL = 10		10
12	04/27/04	MW-2	ND, QL = 10		10
13	10/26/04	MW-2	ND, QL = 10		10
14	03/15/05	MW-2	ND, QL = 10		10
15	07/12/05	MW-2	ND, QL = 10		10
16	01/19/06	MW-2	ND, QL = 10		10
17	07/11/06	MW-2	ND, QL = 10		10
18	01/17/07	MW-2	0.070	J	0.050
19	07/09/07	MW-2	0.065	J	0.050

Number of Data	19
Number of Truncated Data	17
Percentage of Truncated Data	89%

Nonparametric Prediction Interval: **0.070**

Project Name: Republic - East Carolina LF
Project No: 053-6620007
Date: 7/9/07

Analyte: Zinc

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	10/28/1998	MW-2	ND, QL = 50		50
2	4/7/1999	MW-2	50		50
3	12/8/1999	MW-2	ND, QL = 50		50
4	4/27/2000	MW-2	90		50
5	10/18/2000	MW-2	ND, QL = 50		50
6	4/19/2001	MW-2	ND, QL = 50		50
7	12/24/2001	MW-2	ND, QL = 50		50
8	4/23/2002	MW-2	ND, QL = 50		50
9	10/23/2002	MW-2	ND, QL = 50		50
10	4/1/2003	MW-2	110		50
11	10/28/2003	MW-2	ND, QL = 50		50
12	4/27/2004	MW-2	ND, QL = 50		50
13	10/26/2004	MW-2	ND, QL = 50		50
14	3/15/2005	MW-2	ND, QL = 50		50
15	7/12/2005	MW-2	ND, QL = 50		50
16	1/19/2006	MW-2	ND, QL = 50		50
17	7/11/2006	MW-2	ND, QL = 50		50
~~18~~	~~1/17/2007~~	~~MW-2~~	~~18.8 B~~	~~B~~	~~10~~
19	7/9/2007	MW-2	8.3	J	10

Number of Data	18
Number of Truncated Data	14
Percentage of Truncated Data	78%

Nonparametric Prediction Interval: **110**