REPUBLIC SERVICES

October 3, 2014

Mr. Ervin Lane
Compliance Hydrogeologist
NCDENR/Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

RE: GW-18 and GW-21 Background Sampling Report
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Dear Mr. Lane,

Republic Services of North Carolina, LLC is submitting the attached Background Sampling Report for monitoring wells GW-18 and GW-21 in electronic format. These new wells serve as monitoring points for the recently constructed Cell 13.

If you have any questions, please contact or Van Burbach or Alex Everhart with Joyce Engineering at (336) 323-0092, or me at (919) 354-3227

Sincerely,

Matt Einsmann, P.E.
Environmental Manager

Enclosure

cc: Matt East, Division Manager, East Carolina Regional Landfill, Republic Services
Van Burbach, Joyce Engineering

1220 Commerce St SW, Box 1
Conover, NC 28613
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JOYCE ENGINEERING

2211 W. Meadowview Rd., #101
Greensboro, NC 27409
tel: 336/323-0092
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September 24, 2014

Mr. Matt Einsmann, P.E.
Environmental Manager
Republic Services of NC, LLC
5111 Chin Page Road
Durham, NC 27703

RE: GW-18 and GW-21 Background Sampling Report
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina
JOYCE Project No. 894.1402.12, Task No. 02

Dear Matt:

Site Information

The East Carolina Regional Landfill is an active Subtitle D municipal solid waste landfill that began operating in 1993. The East Carolina Regional Landfill is located approximately 7.5 miles northwest of Windsor, NC at the intersection of State Routes 1221 and 1225. The landfill is currently accepting waste in Phase 5, Cell 13.

GW-18 was installed March 22, 2009, in order to construct Cell 13. Piezometer PZ-110 was installed May 17, 2005, to monitoring well specifications. On June 3, 2009, PZ-110 was converted into a monitoring well and was renamed GW-21. Cell 13 began receiving waste in the first quarter of 2014 and wells GW-18 and GW-21 became part of the compliance network with the July 2014 sampling event. The driller's logs and well boring logs for GW-18 and GW-21 are included in Attachment 3.

Background Sampling

An initial background sampling event for GW-18 and GW-21 was conducted by Golder Associates NC, Inc. (Golder) on July 20, 2009, in conjunction with the second semiannual compliance event of 2009. Three additional background sampling events were conducted by Joyce Engineering (JOYCE) on May 31, 2014, June 24, 2014, and July 24, 2014. During each of the sampling events, GW-18 and GW-21 were sampled with dedicated bladder pumps using micropurge procedures pursuant to the facility's approved monitoring plan. Measurements of pH, specific conductance, dissolved oxygen, oxidation-reduction potential, temperature, and turbidity were recorded after each system volume collected during the purge with field-calibrated instruments to monitor for stabilization of water quality. The Golder and JOYCE field sampling logs are included in Attachment 1. The July 2009 samples collected by Golder were analyzed by Environmental Conservation Laboratories, Inc. (ENCO) of Cary, North Carolina. Samples collected by JOYCE were collected in laboratory-prepared sample containers, placed in coolers on ice, and shipped to Analytical Services, Inc. (ASI) of Norcross, Georgia under chain-of-custody control for analysis.

Analytical Results

The four background samples from GW-18 and GW-21 were analyzed for NC Appendix I metals by Method 6020A, and for NC Appendix I volatile organic compounds (VOCs) by Method 8260B. The July 2009 Laboratory Analytical Report from ENCO, and the May, June, and July 2014 Laboratory Analytical Reports from ASI are included in Attachment 2.

Three NC Appendix I constituents, barium, beryllium, and zinc, were detected at quantified concentration above the North Carolina Solid Waste Section Limits (SWSL) in one or more of the samples from GW-18. No NC Appendix I constituents were detected at quantified concentrations above the North Carolina Solid Waste Section Limits (SWSL) in any of the samples from GW-21. There were no exceedances of Groundwater Protection Standards (GPS). Table 1 summarizes the results of the background sampling of GW-18 and GW-21.

An Environmental Monitoring Reporting Form (EMRF) for the May, June, and July 2014 sampling events is included as Attachment 4. Please feel free to contact me at (336) 323-0092 if you have any questions.

Sincerely,
JOYCE ENGINEERING

Van Burbach Ph.D., P.G.
Technical Consultant

Attachments

Copy: Ray Hoffman
Matt East

TABLE 1:
Background Sampling Results for Wells GW-18 and GW-21
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Analyte	Sample Date	RL	GW-18		GW-21		Blanks	
Inorganic Compounds								
Arsenic	07/20/09	10.0	4.02	J	ND		ND	
NC 2L = 10 µg/L	05/30/14	10.0	ND		ND		ND	
	06/24/14	10.0	ND		ND		ND	
	07/24/14	10.0	ND		ND		ND	
Barium	07/20/09	100	445		37.2	J	ND	
NC 2L = 700 µg/L	05/30/14	100	261		29.8	J	ND	
	06/24/14	100	285		27.3	J	ND	
	07/24/14	100	209		23.9	J	0.320	J
Beryllium	07/20/09	1.00	1.66		0.359	B	0.0779	J
GWPS = 4 µg/L	05/30/14	1.00	1.27		0.09	J	ND	
	06/24/14	1.00	1.18		ND		ND	
	07/24/14	1.00	0.91	J	0.09	J	ND	
Cadmium	07/20/09	1.00	0.252	B	0.328	B	0.11	J
NC 2L = 2 µg/L	05/30/14	1.00	0.05	J	ND		ND	
	06/24/14	1.00	ND		ND		ND	
	07/24/14	1.00	0.05	J	ND		ND	
Chromium	07/20/09	10.0	2.55	J	4.63	J	ND	
NC 2L = 10 µg/L	05/30/14	10.0	2.18	B	2.93	B	3.93	J
	06/24/14	10.0	9.44	B	7.42	B	8.19	J
	07/24/14	10.0	ND		ND		ND	
Cobalt	07/20/09	10.0	7.69	J	0.895	J	ND	
GWPS = 1 µg/L	05/30/14	10.0	5.78	J	0.42	J	ND	
	06/24/14	10.0	5.64	J	ND		ND	
	07/24/14	10.0	4.06	J	0.33	J	ND	
Copper	07/20/09	10.0	ND		1.09	B	1.25	J
NC 2L = 1000 µg/L	05/30/14	10.0	0.98	J	0.81	J	ND	
	06/24/14	10.0	0.79	B	0.42	B	0.23	J
	07/24/14	10.0	0.39	J	0.46	J	ND	
Lead	07/20/09	10.0	6.11	B	5.83	B	2.16	J
NC 2L = 15 µg/L	05/30/14	10.0	2.40	J	2.59	J	ND	
	06/24/14	10.0	3.26	J	0.70	J	ND	
	07/24/14	10.0	2.78	J	1.62	J	ND	
Nickel	07/20/09	50.0	9.37	J	1.49	J	ND	
NC 2L = 100 µg/L	05/30/14	50.0	6.80	J	0.59	J	ND	
	06/24/14	50.0	6.61	J	ND		ND	
	07/24/14	50.0	4.58	J	0.38	J	ND	

TABLE 1:
Background Sampling Results for Wells GW-18 and GW-21
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Analyte	Sample Date	RL	GW-18		GW-21		Blanks	
Selenium	07/20/09	10.0	7.32	B	8.27	B	3.58	J
NC 2L = 20 µg/L	05/30/14	10.0	ND		ND		ND	
	06/24/14	10.0	1.28	J	ND		ND	
	07/24/14	10.0	ND		ND		ND	
Silver	07/20/09	10.0	ND		2.61	J	ND	
NC 2L = 20 µg/L	05/30/14	10.0	ND		ND		ND	
	06/24/14	10.0	ND		ND		ND	
	07/24/14	10.0	ND		ND		ND	
Vanadium	07/20/09	10.0	4.71	J	9.74	J	0.803	J
GWPS = 0.3 µg/L	05/30/14	25.0	ND		4.36	J	ND	
	06/24/14	25.0	ND		ND		ND	
	07/24/14	25.0	1.20	B	4.69	B	1.41	J
Zinc	07/20/09	10.0	21.7		ND		ND	
NC 2L = 1000 µg/L	05/30/14	10.0	15.2		2.42	B	1.03	J
	06/24/14	10.0	19.0		3.04	B	1.70	J
	07/24/14	10.0	7.39	J	1.29	B	1.23	J
Organic Compounds								
Chloroform	07/20/09	1.0	ND		1.3	J	ND	
NC 2L = 70 µg/L	05/30/14	5.0	ND		3.2	J	ND	
	06/24/14	5.0	ND		4.2	J	ND	
	07/24/14	5.0	ND		3.8	J	ND	
Field Parameters								
pH	07/20/09	---	4.23		4.65		---	
(S.U.)	05/31/14	---	4.01		4.22		---	
	06/24/14	---	4.15		4.03		---	
	07/24/14	---	4.22		4.01		---	
Conductivity	07/20/09	---	198		26		---	
(µS/cm)	05/31/14	---	145		22.3		---	
	06/24/14	---	163.3		23.3		---	
	07/24/14	---	164.5		23.7		---	
Temperature	07/20/09	---	18.25		17.64		---	
(ºC)	05/31/14	---	15.5		15.9		---	
	06/24/14	---	16.2		16.6		---	
	07/24/14	---	19.2		18.1		---	

TABLE 1:
Background Sampling Results for Wells GW-18 and GW-21
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Analyte	Sample Date	RL	GW-18	GW-21	Blanks
Turbidity	07/20/09	---	92.0	85.2	---
(NTU)	05/31/14	---	7.26	29.9	---
	06/24/14	---	5.60	7.48	---
	07/24/14	---	4.12	---	---
Oxidation Reduction Potential	07/20/09	---	285.2	251.8	---
(mV)	05/31/14	---	180.3	171.9	---
	06/24/14	---	171.2	181.4	---
	07/24/14	---	153.2	171.5	---
Dissolved Oxygen	07/20/09	---	4.97	6.19	---
(mg/L)	05/31/14	---	6.57	5.48	---
	06/24/14	---	3.54	3.33	---
	07/24/14	---	4.51	4.44	---

Notes:
DL = Method Detection Limit.
RL = Reporting Limit = SWSL starting January 2007.
SWSL = NC-DENR Solid Waste Section Limit.
NC 2L = Groundwater Standard established in 15 A NCAC 2L.0202
GWPS = NC DENR Solid Waste Section Groundwater Protection Standard for constituents with no listed NC 2L.
ND = Not detected above the DL.
J = Estimated concentration below the RL.
B = Blank qualified data.
--- = No data.
All inorganic and organic compunds are reported in µg/L
mg/L = milligrams per liter.
µg/L = micrograms per liter.
S.U. = Standard Units.
NTU = Nephelometric Turbidity Units.
µS/cm= microsiemens per centimeter.
mV = Millivolts.
Blanks = field, trip, and/or method blanks.
All data prior to 2012 taken from previous reports by Golder Associates NC, Inc.

Attachment 1

Field Sampling Data Logs

July 2009, May 2014, June 2014, and July 2014 Sampling Events

JOYCE ENGINEERING

DATE: 7/21/2009

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: EAST CAROLINA LF
Project No./Phase No.: 053-6620009.100
Well ID: GW-18
Sampler(s): B. DRAPER | R. SPRINGFIELD
Well Diameter: 2 inches
Int. Depth to Water: 15.33 feet
Depth to Bottom: 29.41 feet
H_20 Column Thickness: 14.08 feet
Pumping Rate: 200 mL/min.
System Volume: 1090 mL
Well Location:
Equipment: YSI-556, QED MP-15, PORTABLE BLADDER PUMP, WL INDICATOR, + TURBIDITY METER

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
10:29	4.40	0.217	462	8.23	19.55	224.5	15.36
10:32	4.31	0.219	359	6.98	18.45	251.3	15.37
10:35	4.28	0.219	295	6.34	18.36	260.2	15.36
10:38	4.25	0.218	270	6.05	18.32	267.5	15.36
10:41	4.24	0.217	238	5.96	18.16	273.4	15.36
10:44	4.24	0.213	209	5.69	18.24	278.6	15.36
10:47	4.23	0.208	139	5.48	18.23	281.8	15.36
10:50	4.23	0.198	92.0	4.97	18.25	285.2	15.36
		SAMPLED FOR NC APPIE @ 10:50					
10:57	4.21	0.190	42.4	4.85	18.88	291.5	15.36

Comments (weather conditions, color, type of sample, purge-water management, etc.):
PARTLY CLOUDY; 86°F; WIND; CALM

Signature: [signature] **Date:** 7/21/2009

QA/QC Sign Off: [signature] **Date:** 8.3.09

DATE: 7/20/2009

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: EAST CAROLINA LF
Project No./Phase No.: 053-6620009.100
Well ID: GW-21
Sampler(s): B. DRAPER | R. STRINGFELLOW
Well Diameter: 2 inches
Int. Depth to Water: 13.38 feet
Depth to Bottom: 28.00 feet
H_20 Column Thickness: 14.62 feet
Pumping Rate: 300 mL/min.
System Volume: 1060 mL
Well Location:
Equipment: YSI 556, MP-15 QED CONTROLLER, WL INDICATOR, TURBIDITY METER

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
16:37	4.62	0.026	116	6.39	17.88	243.5	13.44
16:40	4.46	0.026	64.9	6.16	17.76	255.7	13.43
16:43	4.59	0.026	85.2	6.44	17.64	251.3	13.43
16:46	4.65	0.026	85.2	6.19	17.64	251.8	13.44
		SAMPLED FOR NC App. I @ 16:46					
16:54	4.53	0.026	49.2	6.15	17.62	267.4	13.44

Comments (weather conditions, color, type of sample, purge-water management, etc.):
PARTLY CLOUDY; 88°F; WIND CALM; LIGHT DRIZZLE

Signature: [signature] **Date:** 7/20/2009

QA/QC Sign Off: [signature] **Date:** 8.3.09

DATE: 5/30/14

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1401.12.01
Well ID: GW-18 **Sampler(s):** D. Girdner
Well Diameter: 2.00 inches **Initial Depth to Water:** 11.18 feet
Depth to Bottom: 29.60 feet **Water Column Thickness** 18.42 feet
Well Location: W of LF between perimeter road and constructed wetlands
Equipment: YSI-Pro, QED MP15, Water Level Meter, LaMotte turbidimeter
Flow rate: 250ml/min
System volume: 150ml

Time	Temp. °C	Dis. O_2 mg/l	Cond. µ.s.	pH s.u.	ORP mv	Turb. ntu	DTW feet
1511	15.6	7.39	152.6	4.17	193.0	15.13	11.22
1514	15.6	7.27	151.1	4.07	189.3	10.05	11.22
1515	15.6	6.85	149.1	4.04	187.5	10.18	11.22
1516	15.6	6.87	148.6	4.03	185.6	10.17	11.22
1517	15.6	6.93	147.4	4.02	185.0	11.01	11.22
1518	15.5	6.69	144.9	4.01	182.2	7.99	11.22
1519	15.5	6.59	145.0	4.01	180.6	8.23	11.23
1520	15.5	6.57	145.0	4.01	180.3	7.26	11.23

Comments (weather conditions, odor, color, silt, type of sample, etc.):

Set new dedicated bladder pump earlier on this day.

Weather: Cloudy, 70's

Sampled for NC Appendix I at 15:20

Signature: Daniel Girdner **Date:** 5-30-14
QA/QC Sign Off: [illegible] **Date:** 9/8/14

DATE: 5/30/14

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1401.12.01
Well ID: GW-21 **Sampler(s):** D. Girdner
Well Diameter: 2.00 inches **Initial Depth to Water:** 12.20 feet
Depth to Bottom: 29.95 feet **Water Column Thickness** 17.75 feet
Well Location: NE of new cell
Equipment: YSI-Pro, QED MP15, Water Level Meter, LaMotte turbidimeter
Flow rate: 250ml/min
System volume: 150ml

Time	Temp. °C	Dis. O_2 mg/l	Cond. µ.s.	pH s.u.	ORP mv	Turb. ntu	DTW feet
1556	16.0	5.38	23.1	4.49	162.7	13.5	12.24
1558	15.9	5.46	22.6	4.39	167.9	16.5	12.25
1559	15.9	5.59	22.4	4.31	170.6	19.1	12.24
1600	15.9	5.49	22.3	4.25	171.3	21.2	12.25
1601	15.9	5.44	23.3	4.24	171.3	7.48	12.25
1602	15.9	5.48	22.3	4.22	171.9	29.9	12.25

Comments (weather conditions, odor, color, silt, type of sample, etc.):

New dedicated bladder pump set earlier on this day.

Sampled at 16:02 for NC Appendix I

Signature: Daniel Girdner **Date:** 5-30-14
QA/QC Sign Off: [illegible] **Date:** 9/6/14

DATE: 6/24/14

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1401.12.01
Well ID: GW-18 **Sampler(s):** A. Freeman
Well Diameter: 2.00 inches **Initial Depth to Water:** 12.00 feet
Depth to Bottom: 29.60 feet **Water Column Thickness** 17.60 feet
Well Location: W of LF between perimeter road and constructed wetlands
Equipment: YSI-Pro, QED MP15, Water Level Meter, Oakton turbidimeter
Flow rate: 250ml/min
System volume: 150ml

Time	Temp. °C	Dis. O_2 mg/l	Cond. µ.s.	pH s.u.	ORP mv	Turb. ntu	DTW feet
0855	16.6	3.82	160.6	4.40	157.3	5.97	12.08
0856	16.3	3.70	162.3	4.36	159.7	6.02	12.06
0857	16.3	3.65	163.1	4.33	161.8	6.10	12.05
0858	16.2	3.55	163.4	4.24	166.3	6.04	12.07
0859	16.2	3.52	163.4	4.20	169.1	5.85	12.05
0900	16.2	3.54	163.3	4.15	171.2	5.60	12.06

Comments (weather conditions, odor, color, silt, type of sample, etc.):

The weather was cloudy with temperatures in the 80s on 6/24/14.

Signature: [signature] **Date:** 6/24/14
QA/QC Sign Off: [signature] **Date:** 9/10/14

DATE: 6/24/14

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1401.12.01
Well ID: GW-21 **Sampler(s):** D. Girdner/ A. Freeman
Well Diameter: 2.00 inches **Initial Depth to Water:** 12.48 feet
Depth to Bottom: 29.95 feet **Water Column Thickness** 17.47 feet
Well Location:
Equipment: YSI-Pro, QED MP15, Water Level Meter, Oakton turbidimeter
Flow rate: 250ml/min
System volume: 150ml

Time	Temp. °C	Dis. O_2 mg/l	Cond. µ.s.	pH s.u.	ORP mv	Turb. ntu	DTW feet
0753	17.8	3.50	29.9	4.65	163.1	29.5	12.50
0754	16.8	3.44	24.5	4.46	161.9	24.8	12.51
0755	16.7	3.37	24.1	4.37	166.4	17.2	12.50
0756	16.6	3.34	23.4	4.12	177.9	11.4	12.52
0757	16.6	3.33	23.3	4.03	181.4	7.48	12.53

Comments (weather conditions, odor, color, silt, type of sample, etc.):

The weather was cloudy with temperatures in the 80s on 6/24/14.

Signature: Amanda Freeman **Date:** 6/24/14
QA/QC Sign Off: [illegible] **Date:** 9/10/14

DATE: 7/24/14

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1401.12.01
Well ID: GW-18 **Sampler(s):** A. Freeman / D. Girdner
Well Diameter: 2.00 inches **Initial Depth to Water:** 8.75 feet
Depth to Bottom: 29.60 feet **Water Column Thickness** 20.85 feet
Well Location: W of LF between perimeter road and constructed wetlands
Equipment: YSI-Pro, Geo Control Pro Compressor, Water Level Meter, Oakton turbidimeter
Flow rate: 250ml/min
System volume: 150ml

Time	Temp. °C	Dis. O_2 mg/l	Cond. µ.s.	pH s.u.	ORP mv	Turb. ntu	DTW feet
1126	19.6	4.33	176.4	4.37	149.3	8.38	9.32
1227	19.4	4.41	172.2	4.31	151.7	6.30	9.38
1228	19.4	4.48	168.7	4.27	152.1	4.01	9.30
1229	19.2	4.51	164.5	4.22	153.2	4.12	9.38

Comments (weather conditions, odor, color, silt, type of sample, etc.):

The weather was cloudy with temperatures in the 80s on 7/24/14.

Signature: [signature] **Date:** 7/24/14
QA/QC Sign Off: [signature] **Date:** 9/8/14

DATE: 7/24/14

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1401.12.01
Well ID: GW-21 **Sampler(s):** D. Girdner
Well Diameter: 2.00 inches **Initial Depth to Water:** 12.41 feet
Depth to Bottom: 29.95 feet **Water Column Thickness** 17.54 feet
Well Location:
Equipment: YSI-Pro, QED MP15, Water Level Meter, Oakton turbidimeter
Flow rate: 175ml/min
System volume: 150ml

Time	Temp. °C	Dis. O_2 mg/l	Cond. µ.s.	pH s.u.	ORP mv	Turb. ntu	DTW feet
1451	21.5	4.36	32.5	4.88	140.8	-	12.41
1452	18.8	4.56	30.0	4.33	156.9	-	12.41
1453	18.5	4.50	24.4	4.26	160.9	-	12.41
1454	18.2	5.38	24.0	4.04	171.5	-	12.41
1455	18.1	4.75	23.8	4.02	172.3	-	12.41
1456	18.1	4.54	23.8	4.01	171.4	-	12.41
1457	18.1	4.44	23.7	4.01	171.5	-	12.41

Comments (weather conditions, odor, color, silt, type of sample, etc.):

The weather was cloudy with temperatures in the 80s on 7/24/14.

Signature: Amanda Freeman **Date:** 7/24/14
QA/QC Sign Off: [illegible] **Date:** 9/8/14

Attachment 2

Laboratory Analytical Reports

July 2009, May 2014, June 2014, and July 2014 Sampling Events

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

Tuesday, August 11, 2009

Golder Associates, Inc. (GO007)

Attn: Dusty Reedy

The Wingate Building 4900 Koger Blvd., Suite 140

Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 053-6620009.100, Project Name/Desc: Republic-East Carolina Landfill
ENCO Workorder: C906040

Dear Dusty Reedy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, July 21, 2009.

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

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

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

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

Sincerely,

Stephanie Franz

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 74.

PROJECT NARRATIVE

Date: 11 August 2009
Client: Golder Associates
Project: Republic- East Carolina Landfill
Lab ID: C906040, C906963

Overview

This report is an amendment to the original report dated 05 August 2009 for this work order. This report was revised to correct the method reporting limit (MRL) for Zinc.

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

Quality Control Samples

Cadmium, Copper, Lead, and Vanadium were detected in the 6010C Method Blank at low-level concentrations (less than half of the MRLs). Detections of these analytes should be considered estimated if the concentrations are not greater than ten times that of the detections in the Method Blanks.

The spike recovery of Antimony and Thallium were outside of control limits for the 6020A Post Spike sample. The QC batch was approved based on acceptable LCS recovery of these analytes and completeness of the QC data.

Quality Control Remarks

No Comments

Other Comments

All samples received under this work order arrived in acceptable conditions. The samples were not checked for residual chlorine, as it is not required. Several samples were not received: well GW-14 has been abandoned, and surface waters SW-1 and SW-2 were not collected.

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

Released By:
Environmental Conservation Laboratories, Inc.

Stephanie Franz
Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 0803-GW2 **Lab ID:** C906040-01 **Sampled:** 07/20/09 14:33 **Received:** 07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/16/10	07/22/09 11:34	7/23/2009 12:24
EPA 6020A	01/16/10	07/22/09 11:47	7/25/2009 14:00
EPA 8260B	08/03/09	07/30/09 10:04	7/30/2009 14:20

Client ID: 0803-GW7 **Lab ID:** C906040-02 **Sampled:** 07/20/09 15:24 **Received:** 07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/16/10	07/22/09 11:34	7/23/2009 12:09
EPA 6020A	01/16/10	07/22/09 11:47	7/25/2009 13:33
EPA 8260B	08/03/09	07/30/09 10:04	7/30/2009 13:16

Client ID: 0803-GW8 **Lab ID:** C906040-03 **Sampled:** 07/21/09 08:42 **Received:** 07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/17/10	07/22/09 11:34	7/23/2009 12:26
EPA 6020A	01/17/10	07/22/09 11:47	7/25/2009 14:04
EPA 8260B	08/04/09	07/30/09 10:04	7/30/2009 14:52

Client ID: 0803-GW9 **Lab ID:** C906040-04 **Sampled:** 07/21/09 09:27 **Received:** 07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/17/10	07/22/09 11:34	7/23/2009 12:35
EPA 6020A	01/17/10	07/22/09 11:47	7/25/2009 14:07
EPA 8260B	08/04/09	07/30/09 10:56	7/30/2009 15:24

Client ID: 0803-GW10 **Lab ID:** C906040-05 **Sampled:** 07/21/09 12:23 **Received:** 07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/17/10	07/22/09 11:34	7/23/2009 12:37
EPA 6020A	01/17/10	07/22/09 11:47	7/25/2009 14:11
EPA 8260B	08/04/09	07/30/09 10:56	7/30/2009 15:56

Client ID: 0803-GW11 **Lab ID:** C906040-06 **Sampled:** 07/21/09 13:09 **Received:** 07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/17/10	07/22/09 11:34	7/23/2009 12:40
EPA 6020A	01/17/10	07/22/09 11:47	7/25/2009 14:14
EPA 8260B	08/04/09	07/30/09 10:56	7/30/2009 16:27

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Client ID: 0803-GW13	Lab ID: C906040-07	Sampled: 07/21/09 13:53	Received: 07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/17/10	07/22/09 11:34	7/23/2009 12:42
EPA 6020A	01/17/10	07/22/09 11:47	7/25/2009 14:18
EPA 8260B	08/04/09	07/30/09 10:56	7/30/2009 16:58

Client ID: 0803-GW15	Lab ID: C906040-08	Sampled: 07/21/09 14:30	Received: 07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/17/10	07/22/09 11:34	7/23/2009 12:44
EPA 6020A	01/17/10	07/22/09 11:47	7/25/2009 14:21
EPA 8260B	08/04/09	07/30/09 10:56	7/30/2009 17:30

Client ID: 0803-GW16R	Lab ID: C906040-09	Sampled: 07/20/09 13:31	Received: 07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/16/10	07/22/09 11:34	7/23/2009 12:47
EPA 6020A	01/16/10	07/22/09 11:47	7/25/2009 14:32
EPA 8260B	08/03/09	07/30/09 10:56	7/30/2009 18:01

Client ID: 0803-GW17	Lab ID: C906040-10	Sampled: 07/20/09 13:02	Received: 07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/16/10	07/22/09 11:34	7/23/2009 12:49
EPA 6020A	01/16/10	07/22/09 11:47	7/25/2009 14:35
EPA 8260B	08/03/09	07/30/09 10:56	7/30/2009 18:32

Client ID: 0803-PW1	Lab ID: C906040-11	Sampled: 07/21/09 15:15	Received: 07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/17/10	07/22/09 11:34	7/23/2009 12:51
EPA 6020A	01/17/10	07/22/09 11:47	7/25/2009 14:39
EPA 8260B	08/04/09	07/30/09 10:56	7/30/2009 19:03

Client ID: 0803-SW3	Lab ID: C906040-12	Sampled: 07/20/09 17:13	Received: 07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/16/10	07/22/09 11:34	7/23/2009 12:53
EPA 6020A	01/16/10	07/22/09 11:47	7/25/2009 14:42
EPA 8260B	08/03/09	07/30/09 10:56	7/30/2009 19:35

Client ID: 0803-SW4	Lab ID: C906040-13	Sampled: 07/21/09 11:24	Received: 07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/17/10	07/22/09 11:34	7/23/2009 12:56
EPA 6020A	01/17/10	07/22/09 11:47	7/25/2009 14:46
EPA 8260B	08/04/09	07/30/09 10:56	7/30/2009 20:06

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Client ID:	0803-Field Blank	Lab ID:	C906040-14	Sampled:	07/21/09 15:35	Received:	07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/17/10	07/22/09 11:34	7/23/2009 13:05
EPA 6020A	01/17/10	07/22/09 11:47	7/25/2009 14:49
EPA 8260B	08/04/09	07/30/09 10:04	7/30/2009 20:36

Client ID:	0803-Trip Blank	Lab ID:	C906040-15RE1	Sampled:	07/20/09 13:02	Received:	07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	08/03/09	07/30/09 10:04	8/3/2009 14:36

Client ID:	0803-GW18	Lab ID:	C906963-01	Sampled:	07/21/09 10:50	Received:	07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/17/10	07/22/09 15:31	7/23/2009 15:12
EPA 6020A	01/17/10	07/23/09 09:40	7/25/2009 12:09
EPA 8260B	08/04/09	07/29/09 13:19	7/31/2009 03:36

Client ID:	0803-GW21	Lab ID:	C906963-02	Sampled:	07/20/09 16:46	Received:	07/21/09 18:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/16/10	07/22/09 15:31	7/23/2009 14:31
EPA 6020A	01/16/10	07/23/09 09:40	7/25/2009 11:52
EPA 8260B	08/03/09	07/29/09 13:19	7/31/2009 03:07

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 0803-GW2 **Lab ID:** C906040-01

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	534		1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	1.26		1	0.0750	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.144	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Chromium - Total	0.941	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	11.4		1	0.580	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.82	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Nickel - Total	6.08	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Thallium - Total	0.0400	J	1	0.0360	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	1.55	JB	1	0.680	10.0	25	ug/L	EPA 6010C	J-01
Zinc - Total	10.3		1	3.40	10.0	10	ug/L	EPA 6010C	

Client ID: 0803-GW7 **Lab ID:** C906040-02

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	96.4	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	2.11		1	0.0750	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.261	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Chromium - Total	0.782	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	35.4		1	0.580	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.21	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Nickel - Total	9.00	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Selenium - Total	4.33	J	1	3.40	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.0520	J	1	0.0360	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	0.778	JB	1	0.680	10.0	25	ug/L	EPA 6010C	J-01
Zinc - Total	28.0		1	3.40	10.0	10	ug/L	EPA 6010C	

Client ID: 0803-GW8 **Lab ID:** C906040-03

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	145		1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.802	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.106	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Chromium - Total	0.801	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.93	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	0.868	J	1	0.810	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.27	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Selenium - Total	3.90	J	1	3.40	10.0	10	ug/L	EPA 6010C	
Zinc - Total	9.27	J	1	3.40	10.0	10	ug/L	EPA 6010C	

Client ID: 0803-GW9 **Lab ID:** C906040-04

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	89.2	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.485	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	1.47	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Lead - Total	1.71	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Nickel - Total	3.03	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Vanadium - Total	1.63	JB	1	0.680	10.0	25	ug/L	EPA 6010C	J-01
Zinc - Total	12.2		1	3.40	10.0	10	ug/L	EPA 6010C	

Client ID: 0803-GW10 **Lab ID: C906040-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	88.6	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.252	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.159	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	2.91	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.73	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Nickel - Total	1.07	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Selenium - Total	5.08	J	1	3.40	10.0	10	ug/L	EPA 6010C	

Client ID: 0803-GW11 **Lab ID: C906040-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	20.0	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.390	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.0999	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Chloroform	0.52	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	4.17	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	0.586	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Nickel - Total	0.716	J	1	0.650	50.0	50	ug/L	EPA 6010C	

Client ID: 0803-GW13 **Lab ID: C906040-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	332		1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.600	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	2.00	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.48	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Vanadium - Total	0.746	JB	1	0.680	10.0	25	ug/L	EPA 6010C	J-01
Zinc - Total	7.25	J	1	3.40	10.0	10	ug/L	EPA 6010C	

Client ID: 0803-GW15 **Lab ID: C906040-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	112		1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.311	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Chromium - Total	1.56	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	2.67	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.59	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Vanadium - Total	0.856	JB	1	0.680	10.0	25	ug/L	EPA 6010C	J-01
Zinc - Total	5.40	J	1	3.40	10.0	10	ug/L	EPA 6010C	

Client ID: 0803-GW16R **Lab ID: C906040-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	39.3	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.121	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.179	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Chloroform	0.65	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	0.998	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	0.772	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.68	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Vanadium - Total	0.886	JB	1	0.680	10.0	25	ug/L	EPA 6010C	J-01
Zinc - Total	8.07	J	1	3.40	10.0	10	ug/L	EPA 6010C	

Client ID: 0803-GW17 **Lab ID: C906040-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes

Client ID: 0803-GW17 **Lab ID:** C906040-10

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	168		1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.593	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.0940	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Chloroform	1.5	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	7.39	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.93	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.19	J	1	0.810	10.0	10	ug/L	EPA 6010C	
Lead - Total	6.81	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Nickel - Total	2.56	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Selenium - Total	4.21	J	1	3.40	10.0	10	ug/L	EPA 6010C	
Silver - Total	2.05	J	1	0.960	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	10.4	JB	1	0.680	10.0	25	ug/L	EPA 6010C	QB-01
Zinc - Total	17.6		1	3.40	10.0	10	ug/L	EPA 6010C	

Client ID: 0803-PW1 **Lab ID:** C906040-11

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	64.9	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.130	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Copper - Total	1.09	J	1	0.810	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.51	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Zinc - Total	43.3		1	3.40	10.0	10	ug/L	EPA 6010C	

Client ID: 0803-SW3 **Lab ID:** C906040-12

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	5.7	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium - Total	112		1	4.20	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	0.968	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Lead - Total	1.65	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Nickel - Total	1.72	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Vanadium - Total	2.11	JB	1	0.680	10.0	25	ug/L	EPA 6010C	J-01
Zinc - Total	6.05	J	1	3.40	10.0	10	ug/L	EPA 6010C	

Client ID: 0803-SW4 **Lab ID:** C906040-13

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	6.32	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	159		1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.950	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.266	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Chromium - Total	38.3		1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	5.81	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	6.67	J	1	0.810	10.0	10	ug/L	EPA 6010C	
Lead - Total	18.4	B	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Nickel - Total	11.4	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Selenium - Total	6.20	J	1	3.40	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.0510	J	1	0.0360	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	69.0	B	1	0.680	10.0	25	ug/L	EPA 6010C	QB-01
Zinc - Total	55.6		1	3.40	10.0	10	ug/L	EPA 6010C	

Client ID: 0803-Field Blank **Lab ID:** C906040-14

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Beryllium - Total	0.0779	J	1	0.0750	1.00	1	ug/L	EPA 6010C	

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Client ID: 0803-Field Blank						Lab ID: C906040-14			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Selenium - Total	3.58	J	1	3.40	10.0	10	ug/L	EPA 6010C	
Toluene	0.44	J	1	0.27	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	0.803	JB	1	0.680	10.0	25	ug/L	EPA 6010C	J-01

Client ID: 0803-GW18						Lab ID: C906963-01			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Arsenic - Total	4.02	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	445		1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	1.66		1	0.0750	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.252	JB	1	0.0870	1.00	1	ug/L	EPA 6010C	J-01
Chromium - Total	2.55	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	7.69	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Lead - Total	6.11	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Nickel - Total	9.37	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Selenium - Total	7.32	J	1	3.40	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	4.71	J	1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	21.7		1	3.40	10.0	10	ug/L	EPA 6010C	

Client ID: 0803-GW21						Lab ID: C906963-02			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	37.2	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.359	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.328	JB	1	0.0870	1.00	1	ug/L	EPA 6010C	J-01
Chloroform	1.3	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium - Total	4.63	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	0.895	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.09	JB	1	0.810	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	5.83	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Nickel - Total	1.49	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Selenium - Total	8.27	J	1	3.40	10.0	10	ug/L	EPA 6010C	
Silver - Total	2.61	J	1	0.960	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	9.74	J	1	0.680	10.0	25	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 0803-GW2
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-01
Sampled: 07/20/09 14:33
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 14:20	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 14:20	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 14:20	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 14:20	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 14:20	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 14:20	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 14:20	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 14:20	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 14:20	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 14:20	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 14:20	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 14:20	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 14:20	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 14:20	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 14:20	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 14:20	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 14:20	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 14:20	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 14:20	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 14:20	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 14:20	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 14:20	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 14:20	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 14:20	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 14:20	JKG	

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Description:	0803-GW2	**Lab Sample ID:**	C906040-01	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/20/09 14:33	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 14:20	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 14:20	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 14:20	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 14:20*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 14:20*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 14:20*	*JKG*	

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Description:	0803-GW2	**Lab Sample ID:**	C906040-01	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/20/09 14:33	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 14:00	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 12:24	VLO	
Barium [7440-39-3] ^	**534**		ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 12:24	VLO	
Beryllium [7440-41-7] ^	**1.26**		ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 12:24	VLO	
Cadmium [7440-43-9] ^	**0.144**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 12:24	VLO	
Chromium [7440-47-3] ^	**0.941**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 12:24	VLO	
Cobalt [7440-48-4] ^	**11.4**		ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 12:24	VLO	
Copper [7440-50-8] ^	0.810	U	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 12:24	VLO	
Lead [7439-92-1] ^	**2.82**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 12:24	VLO	J-01
Nickel [7440-02-0] ^	**6.08**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 12:24	VLO	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:24	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 12:24	VLO	
Thallium [7440-28-0] ^	**0.0400**	J	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 14:00	VLO	
Vanadium [7440-62-2] ^	**1.55**	JB	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 12:24	VLO	J-01
Zinc [7440-66-6] ^	**10.3**		ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:24	VLO	

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

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Description: 0803-GW7
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-02
Sampled: 07/20/09 15:24
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 13:16	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 13:16	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 13:16	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 13:16	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 13:16	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 13:16	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 13:16	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 13:16	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 13:16	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 13:16	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 13:16	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 13:16	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 13:16	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 13:16	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 13:16	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 13:16	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 13:16	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 13:16	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 13:16	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 13:16	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 13:16	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 13:16	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 13:16	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 13:16	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 13:16	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 13:16	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 13:16	JKG	

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Description:	0803-GW7	**Lab Sample ID:**	C906040-02	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/20/09 15:24	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 13:16	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 13:16*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 13:16*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 13:16*	*JKG*	

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Description: 0803-GW7
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-02
Sampled: 07/20/09 15:24
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 13:33	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 12:09	VLO	
Barium [7440-39-3] ^	**96.4**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 12:09	VLO	
Beryllium [7440-41-7] ^	**2.11**		ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 12:09	VLO	
Cadmium [7440-43-9] ^	**0.261**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 12:09	VLO	
Chromium [7440-47-3] ^	**0.782**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 12:09	VLO	
Cobalt [7440-48-4] ^	**35.4**		ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 12:09	VLO	
Copper [7440-50-8] ^	0.810	U	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 12:09	VLO	
Lead [7439-92-1] ^	**2.21**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 12:09	VLO	J-01
Nickel [7440-02-0] ^	**9.00**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 12:09	VLO	
Selenium [7782-49-2] ^	**4.33**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:09	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 12:09	VLO	
Thallium [7440-28-0] ^	**0.0520**	J	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 13:33	VLO	
Vanadium [7440-62-2] ^	**0.778**	JB	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 12:09	VLO	J-01
Zinc [7440-66-6] ^	**28.0**		ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:09	VLO	

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

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Description: 0803-GW8
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-03
Sampled: 07/21/09 08:42
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 14:52	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 14:52	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 14:52	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 14:52	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 14:52	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 14:52	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 14:52	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 14:52	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 14:52	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 14:52	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 14:52	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 14:52	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 14:52	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 14:52	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 14:52	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 14:52	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 14:52	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 14:52	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 14:52	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 14:52	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 14:52	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 14:52	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 14:52	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 14:52	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 14:52	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 14:52	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 14:52	JKG	

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Description:	0803-GW8	**Lab Sample ID:**	C906040-03	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 08:42	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 14:52	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 14:52*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 14:52*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 14:52*	*JKG*	

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Description:	0803-GW8	**Lab Sample ID:**	C906040-03	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 08:42	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 14:04	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 12:26	VLO	
Barium [7440-39-3] ^	**145**		ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 12:26	VLO	
Beryllium [7440-41-7] ^	**0.802**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 12:26	VLO	
Cadmium [7440-43-9] ^	**0.106**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 12:26	VLO	
Chromium [7440-47-3] ^	**0.801**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 12:26	VLO	
Cobalt [7440-48-4] ^	**3.93**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 12:26	VLO	
Copper [7440-50-8] ^	**0.868**	J	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 12:26	VLO	
Lead [7439-92-1] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 12:26	VLO	
Nickel [7440-02-0] ^	**3.27**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 12:26	VLO	
Selenium [7782-49-2] ^	**3.90**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:26	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 12:26	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 14:04	VLO	
Vanadium [7440-62-2] ^	0.680	U	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 12:26	VLO	
Zinc [7440-66-6] ^	**9.27**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:26	VLO	

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

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Description: 0803-GW9
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-04
Sampled: 07/21/09 09:27
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 15:24	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 15:24	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 15:24	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 15:24	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 15:24	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 15:24	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 15:24	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 15:24	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 15:24	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 15:24	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 15:24	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 15:24	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 15:24	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 15:24	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 15:24	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 15:24	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 15:24	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 15:24	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 15:24	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 15:24	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 15:24	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 15:24	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 15:24	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 15:24	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 15:24	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 15:24	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 15:24	JKG	

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Description:	0803-GW9	**Lab Sample ID:**	C906040-04	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 09:27	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 15:24	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 15:24*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 15:24*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 15:24*	*JKG*	

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Description:	0803-GW9	**Lab Sample ID:**	C906040-04	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 09:27	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 14:07	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 12:35	VLO	
Barium [7440-39-3] ^	**89.2**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 12:35	VLO	
Beryllium [7440-41-7] ^	**0.485**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 12:35	VLO	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 12:35	VLO	
Chromium [7440-47-3] ^	0.710	U	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 12:35	VLO	
Cobalt [7440-48-4] ^	**1.47**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 12:35	VLO	
Copper [7440-50-8] ^	0.810	U	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 12:35	VLO	
Lead [7439-92-1] ^	**1.71**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 12:35	VLO	J-01
Nickel [7440-02-0] ^	**3.03**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 12:35	VLO	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:35	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 12:35	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 14:07	VLO	
Vanadium [7440-62-2] ^	**1.63**	JB	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 12:35	VLO	J-01
Zinc [7440-66-6] ^	**12.2**		ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:35	VLO	

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

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Description: 0803-GW10
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-05
Sampled: 07/21/09 12:23
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 15:56	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 15:56	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 15:56	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 15:56	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 15:56	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 15:56	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 15:56	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 15:56	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 15:56	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 15:56	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 15:56	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 15:56	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 15:56	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 15:56	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 15:56	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 15:56	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 15:56	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 15:56	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 15:56	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 15:56	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 15:56	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 15:56	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 15:56	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 15:56	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 15:56	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 15:56	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 15:56	JKG	

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Description:	0803-GW10	**Lab Sample ID:**	C906040-05	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 12:23	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 15:56	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 15:56*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 15:56*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 15:56*	*JKG*	

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Description:	0803-GW10	**Lab Sample ID:**	C906040-05	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 12:23	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 14:11	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 12:37	VLO	
Barium [7440-39-3] ^	**88.6**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 12:37	VLO	
Beryllium [7440-41-7] ^	**0.252**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 12:37	VLO	
Cadmium [7440-43-9] ^	**0.159**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 12:37	VLO	
Chromium [7440-47-3] ^	0.710	U	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 12:37	VLO	
Cobalt [7440-48-4] ^	**2.91**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 12:37	VLO	
Copper [7440-50-8] ^	0.810	U	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 12:37	VLO	
Lead [7439-92-1] ^	**2.73**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 12:37	VLO	J-01
Nickel [7440-02-0] ^	**1.07**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 12:37	VLO	
Selenium [7782-49-2] ^	**5.08**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:37	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 12:37	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 14:11	VLO	
Vanadium [7440-62-2] ^	0.680	U	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 12:37	VLO	
Zinc [7440-66-6] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:37	VLO	

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

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Description: 0803-GW11
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-06
Sampled: 07/21/09 13:09
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 16:27	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 16:27	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 16:27	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 16:27	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 16:27	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 16:27	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 16:27	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 16:27	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 16:27	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 16:27	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 16:27	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 16:27	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 16:27	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 16:27	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 16:27	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 16:27	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 16:27	JKG	
Chloroform [67-66-3] ^	**0.52**	J	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 16:27	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 16:27	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 16:27	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 16:27	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 16:27	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 16:27	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 16:27	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 16:27	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 16:27	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 16:27	JKG	

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Description:	0803-GW11	**Lab Sample ID:**	C906040-06	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 13:09	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 16:27	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 16:27*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 16:27*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 16:27*	*JKG*	

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Description:	0803-GW11	**Lab Sample ID:**	C906040-06	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 13:09	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 14:14	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 12:40	VLO	
Barium [7440-39-3] ^	**20.0**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 12:40	VLO	
Beryllium [7440-41-7] ^	**0.390**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 12:40	VLO	
Cadmium [7440-43-9] ^	**0.0999**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 12:40	VLO	
Chromium [7440-47-3] ^	**4.17**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 12:40	VLO	
Cobalt [7440-48-4] ^	**0.586**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 12:40	VLO	
Copper [7440-50-8] ^	0.810	U	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 12:40	VLO	
Lead [7439-92-1] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 12:40	VLO	
Nickel [7440-02-0] ^	**0.716**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 12:40	VLO	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:40	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 12:40	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 14:14	VLO	
Vanadium [7440-62-2] ^	0.680	U	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 12:40	VLO	
Zinc [7440-66-6] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:40	VLO	

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

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Description: 0803-GW13
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-07
Sampled: 07/21/09 13:53
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 16:58	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 16:58	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 16:58	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 16:58	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 16:58	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 16:58	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 16:58	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 16:58	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 16:58	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 16:58	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 16:58	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 16:58	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 16:58	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 16:58	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 16:58	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 16:58	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 16:58	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 16:58	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 16:58	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 16:58	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 16:58	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 16:58	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 16:58	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 16:58	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 16:58	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 16:58	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 16:58	JKG	

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Description:	0803-GW13	**Lab Sample ID:**	C906040-07	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 13:53	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 16:58	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 16:58*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 16:58*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 16:58*	*JKG*	

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Description:	0803-GW13	**Lab Sample ID:**	C906040-07	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 13:53	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 14:18	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 12:42	VLO	
Barium [7440-39-3] ^	**332**		ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 12:42	VLO	
Beryllium [7440-41-7] ^	**0.600**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 12:42	VLO	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 12:42	VLO	
Chromium [7440-47-3] ^	0.710	U	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 12:42	VLO	
Cobalt [7440-48-4] ^	**2.00**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 12:42	VLO	
Copper [7440-50-8] ^	0.810	U	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 12:42	VLO	
Lead [7439-92-1] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 12:42	VLO	
Nickel [7440-02-0] ^	**2.48**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 12:42	VLO	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:42	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 12:42	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 14:18	VLO	
Vanadium [7440-62-2] ^	**0.746**	JB	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 12:42	VLO	J-01
Zinc [7440-66-6] ^	**7.25**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:42	VLO	

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Description: 0803-GW15
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-08
Sampled: 07/21/09 14:30
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 17:30	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 17:30	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 17:30	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 17:30	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 17:30	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 17:30	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 17:30	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 17:30	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 17:30	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 17:30	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 17:30	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 17:30	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 17:30	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 17:30	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 17:30	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 17:30	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 17:30	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 17:30	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 17:30	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 17:30	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 17:30	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 17:30	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 17:30	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 17:30	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 17:30	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 17:30	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 17:30	JKG	

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Description:	0803-GW15	**Lab Sample ID:**	C906040-08	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 14:30	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 17:30	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 17:30*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 17:30*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 17:30*	*JKG*	

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Description:	0803-GW15	**Lab Sample ID:**	C906040-08	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 14:30	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 14:21	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 12:44	VLO	
Barium [7440-39-3] ^	**112**		ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 12:44	VLO	
Beryllium [7440-41-7] ^	**0.311**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 12:44	VLO	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 12:44	VLO	
Chromium [7440-47-3] ^	**1.56**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 12:44	VLO	
Cobalt [7440-48-4] ^	**2.67**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 12:44	VLO	
Copper [7440-50-8] ^	0.810	U	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 12:44	VLO	
Lead [7439-92-1] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 12:44	VLO	
Nickel [7440-02-0] ^	**2.59**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 12:44	VLO	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:44	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 12:44	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 14:21	VLO	
Vanadium [7440-62-2] ^	**0.856**	JB	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 12:44	VLO	J-01
Zinc [7440-66-6] ^	**5.40**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:44	VLO	

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

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Description: 0803-GW16R
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-09
Sampled: 07/20/09 13:31
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 18:01	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 18:01	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 18:01	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 18:01	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 18:01	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 18:01	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 18:01	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 18:01	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 18:01	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 18:01	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 18:01	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 18:01	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 18:01	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 18:01	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 18:01	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 18:01	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 18:01	JKG	
Chloroform [67-66-3] ^	**0.65**	J	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 18:01	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 18:01	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 18:01	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 18:01	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 18:01	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 18:01	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 18:01	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 18:01	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 18:01	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 18:01	JKG	

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Description:	0803-GW16R	**Lab Sample ID:**	C906040-09	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/20/09 13:31	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 18:01	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 18:01*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 18:01*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 18:01*	*JKG*	

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Description:	0803-GW16R	**Lab Sample ID:**	C906040-09	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/20/09 13:31	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 14:32	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 12:47	VLO	
Barium [7440-39-3] ^	**39.3**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 12:47	VLO	
Beryllium [7440-41-7] ^	**0.121**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 12:47	VLO	
Cadmium [7440-43-9] ^	**0.179**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 12:47	VLO	
Chromium [7440-47-3] ^	**0.998**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 12:47	VLO	
Cobalt [7440-48-4] ^	**0.772**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 12:47	VLO	
Copper [7440-50-8] ^	0.810	U	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 12:47	VLO	
Lead [7439-92-1] ^	**2.68**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 12:47	VLO	J-01
Nickel [7440-02-0] ^	0.650	U	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 12:47	VLO	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:47	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 12:47	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 14:32	VLO	
Vanadium [7440-62-2] ^	**0.886**	JB	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 12:47	VLO	J-01
Zinc [7440-66-6] ^	**8.07**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:47	VLO	

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

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Description: 0803-GW17
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-10
Sampled: 07/20/09 13:02
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 18:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 18:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 18:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 18:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 18:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 18:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 18:32	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 18:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 18:32	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 18:32	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 18:32	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 18:32	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 18:32	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 18:32	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 18:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 18:32	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 18:32	JKG	
Chloroform [67-66-3] ^	**1.5**	J	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 18:32	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 18:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 18:32	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 18:32	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 18:32	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 18:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 18:32	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 18:32	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 18:32	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 18:32	JKG	

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Description:	0803-GW17	**Lab Sample ID:**	C906040-10	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/20/09 13:02	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 18:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 18:32*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 18:32*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 18:32*	*JKG*	

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Description: 0803-GW17
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-10
Sampled: 07/20/09 13:02
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 14:35	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 12:49	VLO	
Barium [7440-39-3] ^	**168**		ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 12:49	VLO	
Beryllium [7440-41-7] ^	**0.593**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 12:49	VLO	
Cadmium [7440-43-9] ^	**0.0940**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 12:49	VLO	
Chromium [7440-47-3] ^	**7.39**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 12:49	VLO	
Cobalt [7440-48-4] ^	**3.93**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 12:49	VLO	
Copper [7440-50-8] ^	**2.19**	J	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 12:49	VLO	
Lead [7439-92-1] ^	**6.81**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 12:49	VLO	J-01
Nickel [7440-02-0] ^	**2.56**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 12:49	VLO	
Selenium [7782-49-2] ^	**4.21**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:49	VLO	
Silver [7440-22-4] ^	**2.05**	J	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 12:49	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 14:35	VLO	
Vanadium [7440-62-2] ^	**10.4**	JB	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 12:49	VLO	QB-01
Zinc [7440-66-6] ^	**17.6**		ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:49	VLO	

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

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Description: 0803-PW1
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-11
Sampled: 07/21/09 15:15
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 19:03	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 19:03	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 19:03	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 19:03	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 19:03	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 19:03	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 19:03	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 19:03	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 19:03	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 19:03	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 19:03	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 19:03	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 19:03	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 19:03	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 19:03	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 19:03	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 19:03	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 19:03	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 19:03	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 19:03	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 19:03	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 19:03	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 19:03	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 19:03	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 19:03	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 19:03	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 19:03	JKG	

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Description:	0803-PW1	**Lab Sample ID:**	C906040-11	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 15:15	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 19:03	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 19:03*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 19:03*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 19:03*	*JKG*	

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Description: 0803-PW1
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-11
Sampled: 07/21/09 15:15
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 14:39	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 12:51	VLO	
Barium [7440-39-3] ^	**64.9**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 12:51	VLO	
Beryllium [7440-41-7] ^	0.0750	U	ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 12:51	VLO	
Cadmium [7440-43-9] ^	**0.130**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 12:51	VLO	
Chromium [7440-47-3] ^	0.710	U	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 12:51	VLO	
Cobalt [7440-48-4] ^	0.580	U	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 12:51	VLO	
Copper [7440-50-8] ^	**1.09**	J	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 12:51	VLO	
Lead [7439-92-1] ^	**2.51**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 12:51	VLO	J-01
Nickel [7440-02-0] ^	0.650	U	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 12:51	VLO	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:51	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 12:51	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 14:39	VLO	
Vanadium [7440-62-2] ^	0.680	U	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 12:51	VLO	
Zinc [7440-66-6] ^	**43.3**		ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:51	VLO	

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

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Description: 0803-SW3
Matrix: Surface Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-12
Sampled: 07/20/09 17:13
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 19:35	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 19:35	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 19:35	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 19:35	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 19:35	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 19:35	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 19:35	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 19:35	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 19:35	JKG	
Acetone [67-64-1] ^	**5.7**	J	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 19:35	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 19:35	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 19:35	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 19:35	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 19:35	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 19:35	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 19:35	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 19:35	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 19:35	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 19:35	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 19:35	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 19:35	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 19:35	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 19:35	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 19:35	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 19:35	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 19:35	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 19:35	JKG	

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Description:	0803-SW3	**Lab Sample ID:**	C906040-12	**Received:**	07/21/09 18:25
Matrix:	Surface Water	**Sampled:**	07/20/09 17:13	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 19:35	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 19:35*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 19:35*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 19:35*	*JKG*	

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Description:	0803-SW3	**Lab Sample ID:**	C906040-12	**Received:**	07/21/09 18:25
Matrix:	Surface Water	**Sampled:**	07/20/09 17:13	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 14:42	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 12:53	VLO	
Barium [7440-39-3] ^	**112**		ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 12:53	VLO	
Beryllium [7440-41-7] ^	0.0750	U	ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 12:53	VLO	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 12:53	VLO	
Chromium [7440-47-3] ^	0.710	U	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 12:53	VLO	
Cobalt [7440-48-4] ^	**0.968**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 12:53	VLO	
Copper [7440-50-8] ^	0.810	U	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 12:53	VLO	
Lead [7439-92-1] ^	**1.65**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 12:53	VLO	J-01
Nickel [7440-02-0] ^	**1.72**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 12:53	VLO	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:53	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 12:53	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 14:42	VLO	
Vanadium [7440-62-2] ^	**2.11**	JB	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 12:53	VLO	J-01
Zinc [7440-66-6] ^	**6.05**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:53	VLO	

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

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Description: 0803-SW4
Matrix: Surface Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-13
Sampled: 07/21/09 11:24
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 20:06	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 20:06	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 20:06	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 20:06	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 20:06	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 20:06	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 20:06	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 20:06	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 20:06	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 20:06	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 20:06	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 20:06	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 20:06	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 20:06	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 20:06	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 20:06	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 20:06	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 20:06	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 20:06	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 20:06	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 20:06	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 20:06	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 20:06	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 20:06	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 20:06	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 20:06	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 20:06	JKG	

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Description:	0803-SW4	**Lab Sample ID:**	C906040-13	**Received:**	07/21/09 18:25
Matrix:	Surface Water	**Sampled:**	07/21/09 11:24	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 20:06	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 20:06*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 20:06*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*91 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 20:06*	*JKG*	

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Description: 0803-SW4
Matrix: Surface Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-13
Sampled: 07/21/09 11:24
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 14:46	VLO	
Arsenic [7440-38-2] ^	**6.32**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 12:56	VLO	
Barium [7440-39-3] ^	**159**		ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 12:56	VLO	
Beryllium [7440-41-7] ^	**0.950**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 12:56	VLO	
Cadmium [7440-43-9] ^	**0.266**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 12:56	VLO	
Chromium [7440-47-3] ^	**38.3**		ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 12:56	VLO	
Cobalt [7440-48-4] ^	**5.81**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 12:56	VLO	
Copper [7440-50-8] ^	**6.67**	J	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 12:56	VLO	
Lead [7439-92-1] ^	**18.4**	B	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 12:56	VLO	J-01
Nickel [7440-02-0] ^	**11.4**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 12:56	VLO	
Selenium [7782-49-2] ^	**6.20**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:56	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 12:56	VLO	
Thallium [7440-28-0] ^	**0.0510**	J	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 14:46	VLO	
Vanadium [7440-62-2] ^	**69.0**	B	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 12:56	VLO	QB-01
Zinc [7440-66-6] ^	**55.6**		ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 12:56	VLO	

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

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Description: 0803-Field Blank
Matrix: Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-14
Sampled: 07/21/09 15:35
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 20:36	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/30/09 20:36	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/30/09 20:36	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/09 20:36	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/30/09 20:36	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/30/09 20:36	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/30/09 20:36	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/30/09 20:36	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/30/09 20:36	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/30/09 20:36	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/30/09 20:36	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/30/09 20:36	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/30/09 20:36	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/30/09 20:36	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/30/09 20:36	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/30/09 20:36	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/30/09 20:36	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/30/09 20:36	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/30/09 20:36	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/30/09 20:36	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/30/09 20:36	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/30/09 20:36	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
Toluene [108-88-3] ^	**0.44**	J	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/30/09 20:36	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/30/09 20:36	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/30/09 20:36	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/30/09 20:36	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/30/09 20:36	JKG	

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Description:	0803-Field Blank	**Lab Sample ID:**	C906040-14	**Received:**	07/21/09 18:25
Matrix:	Water	**Sampled:**	07/21/09 15:35	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/30/09 20:36	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*9G30012*	*EPA 8260B*	*07/30/09 20:36*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*9G30012*	*EPA 8260B*	*07/30/09 20:36*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G30012*	*EPA 8260B*	*07/30/09 20:36*	*JKG*	

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Description: 0803-Field Blank
Matrix: Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-14
Sampled: 07/21/09 15:35
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	2.00	6	EPA 6020A	07/25/09 14:49	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 13:05	VLO	
Barium [7440-39-3] ^	4.20	U	ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 13:05	VLO	
Beryllium [7440-41-7] ^	**0.0779**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 13:05	VLO	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 13:05	VLO	
Chromium [7440-47-3] ^	0.710	U	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 13:05	VLO	
Cobalt [7440-48-4] ^	0.580	U	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 13:05	VLO	
Copper [7440-50-8] ^	0.810	U	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 13:05	VLO	
Lead [7439-92-1] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 13:05	VLO	
Nickel [7440-02-0] ^	0.650	U	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 13:05	VLO	
Selenium [7782-49-2] ^	**3.58**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 13:05	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 13:05	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 14:49	VLO	
Vanadium [7440-62-2] ^	**0.803**	JB	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 13:05	VLO	J-01
Zinc [7440-66-6] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 13:05	VLO	

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

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Description: 0803-Trip Blank
Matrix: Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906040-15
Sampled: 07/20/09 13:02
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906040

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	08/03/09 14:36	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	08/03/09 14:36	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	08/03/09 14:36	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	08/03/09 14:36	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	08/03/09 14:36	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	08/03/09 14:36	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	08/03/09 14:36	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	08/03/09 14:36	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	08/03/09 14:36	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	08/03/09 14:36	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	08/03/09 14:36	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	08/03/09 14:36	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	08/03/09 14:36	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	08/03/09 14:36	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	08/03/09 14:36	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	08/03/09 14:36	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	08/03/09 14:36	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	08/03/09 14:36	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	08/03/09 14:36	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	08/03/09 14:36	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	08/03/09 14:36	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	08/03/09 14:36	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	08/03/09 14:36	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	08/03/09 14:36	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	08/03/09 14:36	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	08/03/09 14:36	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	08/03/09 14:36	JKG	

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Description:	0803-Trip Blank	**Lab Sample ID:**	C906040-15	**Received:**	07/21/09 18:25
Matrix:	Water	**Sampled:**	07/20/09 13:02	**Work Order:**	C906040
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	08/03/09 14:36	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*51-122*	*9H03019*	*EPA 8260B*	*08/03/09 14:36*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*9H03019*	*EPA 8260B*	*08/03/09 14:36*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*9H03019*	*EPA 8260B*	*08/03/09 14:36*	*JKG*	

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

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Description: 0803-GW18
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906963-01
Sampled: 07/21/09 10:50
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906963

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/31/09 03:36	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/31/09 03:36	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/31/09 03:36	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/31/09 03:36	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/31/09 03:36	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/31/09 03:36	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/31/09 03:36	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/31/09 03:36	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/31/09 03:36	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/31/09 03:36	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/31/09 03:36	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/31/09 03:36	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/31/09 03:36	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/31/09 03:36	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/31/09 03:36	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/31/09 03:36	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/31/09 03:36	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/31/09 03:36	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/31/09 03:36	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/31/09 03:36	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/31/09 03:36	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/31/09 03:36	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/31/09 03:36	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/31/09 03:36	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/31/09 03:36	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/31/09 03:36	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/31/09 03:36	JKG	

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Description:	0803-GW18	**Lab Sample ID:**	C906963-01	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 10:50	**Work Order:**	C906963
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/31/09 03:36	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*9G29023*	*EPA 8260B*	*07/31/09 03:36*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*68-117*	*9G29023*	*EPA 8260B*	*07/31/09 03:36*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*69-110*	*9G29023*	*EPA 8260B*	*07/31/09 03:36*	*JKG*	

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Description:	0803-GW18	**Lab Sample ID:**	C906963-01	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/21/09 10:50	**Work Order:**	C906963
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	5.00	6	EPA 6020A	07/25/09 12:09	VLO	
Arsenic [7440-38-2] ^	**4.02**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 15:12	VLO	
Barium [7440-39-3] ^	**445**		ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 15:12	VLO	
Beryllium [7440-41-7] ^	**1.66**		ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 15:12	VLO	
Cadmium [7440-43-9] ^	**0.252**	JB	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 15:12	VLO	J-01
Chromium [7440-47-3] ^	**2.55**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 15:12	VLO	
Cobalt [7440-48-4] ^	**7.69**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 15:12	VLO	
Copper [7440-50-8] ^	0.810	U	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 15:12	VLO	
Lead [7439-92-1] ^	**6.11**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 15:12	VLO	J-01
Nickel [7440-02-0] ^	**9.37**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 15:12	VLO	
Selenium [7782-49-2] ^	**7.32**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 15:12	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 15:12	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 12:09	VLO	
Vanadium [7440-62-2] ^	**4.71**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 15:12	VLO	
Zinc [7440-66-6] ^	**21.7**		ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 15:12	VLO	

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

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Description: 0803-GW21
Matrix: Ground Water
Project: Republic-East Carolina Landfill

Lab Sample ID: C906963-02
Sampled: 07/20/09 16:46
Sampled By: Ryan Stringfellow/Ben Dra

Received: 07/21/09 18:25
Work Order: C906963

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/31/09 03:07	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/31/09 03:07	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/31/09 03:07	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/31/09 03:07	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/31/09 03:07	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/31/09 03:07	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/31/09 03:07	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/31/09 03:07	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/31/09 03:07	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/31/09 03:07	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/31/09 03:07	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/31/09 03:07	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/31/09 03:07	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/31/09 03:07	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/31/09 03:07	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/31/09 03:07	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/31/09 03:07	JKG	
Chloroform [67-66-3] ^	**1.3**	J	ug/L	1	0.20	1.0	5	EPA 8260B	07/31/09 03:07	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/31/09 03:07	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/31/09 03:07	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/31/09 03:07	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/31/09 03:07	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/31/09 03:07	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/31/09 03:07	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/31/09 03:07	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/31/09 03:07	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/31/09 03:07	JKG	

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Description:	0803-GW21	**Lab Sample ID:**	C906963-02	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/20/09 16:46	**Work Order:**	C906963
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/31/09 03:07	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9G29023*	*EPA 8260B*	*07/31/09 03:07*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*9G29023*	*EPA 8260B*	*07/31/09 03:07*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*69-110*	*9G29023*	*EPA 8260B*	*07/31/09 03:07*	*JKG*	

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Description:	0803-GW21	**Lab Sample ID:**	C906963-02	**Received:**	07/21/09 18:25
Matrix:	Ground Water	**Sampled:**	07/20/09 16:46	**Work Order:**	C906963
Project:	Republic-East Carolina Landfill	**Sampled By:**	Ryan Stringfellow/Ben Dra		

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.680	U	ug/L	1	0.680	5.00	6	EPA 6020A	07/25/09 11:52	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/23/09 14:31	VLO	
Barium [7440-39-3] ^	**37.2**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/23/09 14:31	VLO	
Beryllium [7440-41-7] ^	**0.359**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/23/09 14:31	VLO	
Cadmium [7440-43-9] ^	**0.328**	JB	ug/L	1	0.0870	1.00	1	EPA 6010C	07/23/09 14:31	VLO	J-01
Chromium [7440-47-3] ^	**4.63**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/23/09 14:31	VLO	
Cobalt [7440-48-4] ^	**0.895**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/23/09 14:31	VLO	
Copper [7440-50-8] ^	**1.09**	JB	ug/L	1	0.810	10.0	10	EPA 6010C	07/23/09 14:31	VLO	J-01
Lead [7439-92-1] ^	**5.83**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/23/09 14:31	VLO	J-01
Nickel [7440-02-0] ^	**1.49**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/23/09 14:31	VLO	
Selenium [7782-49-2] ^	**8.27**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 14:31	VLO	
Silver [7440-22-4] ^	**2.61**	J	ug/L	1	0.960	10.0	10	EPA 6010C	07/23/09 14:31	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/25/09 11:52	VLO	
Vanadium [7440-62-2] ^	**9.74**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/23/09 14:31	VLO	
Zinc [7440-66-6] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/23/09 14:31	VLO	

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

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G29023 - EPA 5030B_MS

Blank (9G29023-BLK1) Prepared: 07/29/2009 13:19 Analyzed: 07/31/2009 00:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G29023 - EPA 5030B_MS

Blank (9G29023-BLK1) Continued Prepared: 07/29/2009 13:19 Analyzed: 07/31/2009 00:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*69-110*			

LCS (9G29023-BS1) Prepared: 07/29/2009 13:19 Analyzed: 07/31/2009 00:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		98	75-133			
Benzene	19		1.0	ug/L	20.0		93	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		93	83-117			
Toluene	19		1.0	ug/L	20.0		94	71-118			
Trichloroethene	19		1.0	ug/L	20.0		93	75-115			

Matrix Spike (9G29023-MS1) Prepared: 07/29/2009 13:19 Analyzed: 07/31/2009 01:08

Source: C906963-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	111	75-133			
Benzene	20		1.0	ug/L	20.0	0.20 U	100	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	98	83-117			
Toluene	20		1.0	ug/L	20.0	0.27 U	102	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	93	75-115			

Matrix Spike Dup (9G29023-MSD1) Prepared: 07/29/2009 13:19 Analyzed: 07/31/2009 01:38

Source: C906963-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	109	75-133	2	20	
Benzene	20		1.0	ug/L	20.0	0.20 U	99	81-134	1	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	95	83-117	3	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	100	71-118	2	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	94	75-115	1	18	

Batch 9G30012 - EPA 5030B_MS

Blank (9G30012-BLK1) Prepared: 07/30/2009 10:04 Analyzed: 07/30/2009 10:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G30012 - EPA 5030B_MS

Blank (9G30012-BLK1) Continued Prepared: 07/30/2009 10:04 Analyzed: 07/30/2009 10:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*91*	*69-110*			

LCS (9G30012-BS1) Prepared: 07/30/2009 10:04 Analyzed: 07/30/2009 11:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		103	75-133			
Benzene	19		1.0	ug/L	20.0		96	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		95	83-117			
Toluene	20		1.0	ug/L	20.0		98	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G30012 - EPA 5030B_MS

LCS (9G30012-BS1) Continued Prepared: 07/30/2009 10:04 Analyzed: 07/30/2009 11:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	19		1.0	ug/L	20.0		93	75-115			

Matrix Spike (9G30012-MS1) Prepared: 07/30/2009 10:04 Analyzed: 07/30/2009 11:41

Source: C906040-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.24 U	115	75-133			
Benzene	21		1.0	ug/L	20.0	0.20 U	107	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	104	83-117			
Toluene	21		1.0	ug/L	20.0	0.27 U	107	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	103	75-115			

Matrix Spike Dup (9G30012-MSD1) Prepared: 07/30/2009 10:04 Analyzed: 07/30/2009 12:12

Source: C906040-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	109	75-133	6	20	
Benzene	20		1.0	ug/L	20.0	0.20 U	99	81-134	8	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	97	83-117	7	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	100	71-118	7	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	96	75-115	7	18	

Batch 9H03019 - EPA 5030B_MS

Blank (9H03019-BLK1) Prepared: 08/03/2009 11:15 Analyzed: 08/03/2009 11:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9H03019 - EPA 5030B_MS

Blank (9H03019-BLK1) Continued Prepared: 08/03/2009 11:15 Analyzed: 08/03/2009 11:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*102*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*69-110*			

LCS (9H03019-BS1) Prepared: 08/03/2009 11:15 Analyzed: 08/03/2009 12:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		113	75-133			
Benzene	20		1.0	ug/L	20.0		101	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			
Trichloroethene	19		1.0	ug/L	20.0		97	75-115			

Matrix Spike (9H03019-MS1) Prepared: 08/03/2009 11:15 Analyzed: 08/03/2009 12:39

Source: C908754-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	110	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	97	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	93	83-117			
Toluene	19		1.0	ug/L	20.0	0.27 U	96	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	93	75-115			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9H03019 - EPA 5030B_MS

Matrix Spike Dup (9H03019-MSD1) Prepared: 08/03/2009 11:15 Analyzed: 08/03/2009 13:08

Source: C908754-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.24 U	114	75-133	4	20	
Benzene	20		1.0	ug/L	20.0	0.20 U	99	81-134	3	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	96	83-117	3	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	99	71-118	3	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	94	75-115	0.9	18	

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

Batch 9G22018 - EPA 3005A

Blank (9G22018-BLK1) Prepared: 07/22/2009 11:34 Analyzed: 07/23/2009 12:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	4.20	U	10.0	ug/L							
Beryllium	0.0750	U	1.00	ug/L							
Cadmium	0.0870	U	1.00	ug/L							
Chromium	0.710	U	10.0	ug/L							
Cobalt	0.580	U	10.0	ug/L							
Copper	0.810	U	10.0	ug/L							
Lead	**2.09**	**J**	10.0	ug/L							
Nickel	0.650	U	50.0	ug/L							
Selenium	3.40	U	10.0	ug/L							
Silver	0.960	U	10.0	ug/L							
Vanadium	**0.742**	**J**	10.0	ug/L							
Zinc	3.40	U	10.0	ug/L							

LCS (9G22018-BS1) Prepared: 07/22/2009 11:34 Analyzed: 07/23/2009 12:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1060		10.0	ug/L	1000		106	80-120			
Barium	1050		10.0	ug/L	1000		105	80-120			
Beryllium	533		1.00	ug/L	500		107	80-120			
Cadmium	531		1.00	ug/L	500		106	80-120			
Chromium	1060		10.0	ug/L	1000		106	80-120			
Cobalt	1050		10.0	ug/L	1000		105	80-120			
Copper	530		10.0	ug/L	500		106	80-120			
Lead	1070	B	10.0	ug/L	1000		107	80-120			
Nickel	1070		50.0	ug/L	1000		107	80-120			
Selenium	1090		10.0	ug/L	1000		109	80-120			
Silver	104		10.0	ug/L	100		104	80-120			
Vanadium	539	B	10.0	ug/L	500		108	80-120			
Zinc	1080		10.0	ug/L	1000		108	80-120			

Matrix Spike (9G22018-MS1) Prepared: 07/22/2009 11:34 Analyzed: 07/23/2009 12:11

Source: C906040-02

QUALITY CONTROL

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

Batch 9G22018 - EPA 3005A

Matrix Spike (9G22018-MS1) Continued Prepared: 07/22/2009 11:34 Analyzed: 07/23/2009 12:11

Source: C906040-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1090		10.0	ug/L	1000	2.80 U	109	75-125			
Barium	1180		10.0	ug/L	1000	96.4	109	75-125			
Beryllium	553		1.00	ug/L	500	2.11	110	75-125			
Cadmium	538		1.00	ug/L	500	0.261	108	75-125			
Chromium	1090		10.0	ug/L	1000	0.782	109	75-125			
Cobalt	1110		10.0	ug/L	1000	35.4	108	75-125			
Copper	540		10.0	ug/L	500	0.810 U	108	75-125			
Lead	1080	B	10.0	ug/L	1000	2.21	108	75-125			
Nickel	1100		50.0	ug/L	1000	9.00	109	75-125			
Selenium	1110		10.0	ug/L	1000	4.33	111	75-125			
Silver	106		10.0	ug/L	100	0.960 U	106	75-125			
Vanadium	551	B	10.0	ug/L	500	0.778	110	75-125			
Zinc	1120		10.0	ug/L	1000	28.0	109	75-125			

Matrix Spike Dup (9G22018-MSD1) Prepared: 07/22/2009 11:34 Analyzed: 07/23/2009 12:14

Source: C906040-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1060		10.0	ug/L	1000	2.80 U	106	75-125	3	20	
Barium	1150		10.0	ug/L	1000	96.4	106	75-125	3	20	
Beryllium	534		1.00	ug/L	500	2.11	106	75-125	3	20	
Cadmium	525		1.00	ug/L	500	0.261	105	75-125	2	20	
Chromium	1060		10.0	ug/L	1000	0.782	106	75-125	2	20	
Cobalt	1080		10.0	ug/L	1000	35.4	105	75-125	3	20	
Copper	526		10.0	ug/L	500	0.810 U	105	75-125	3	20	
Lead	1050	B	10.0	ug/L	1000	2.21	105	75-125	3	20	
Nickel	1070		50.0	ug/L	1000	9.00	106	75-125	2	20	
Selenium	1090		10.0	ug/L	1000	4.33	108	75-125	2	20	
Silver	104		10.0	ug/L	100	0.960 U	104	75-125	2	20	
Vanadium	538	B	10.0	ug/L	500	0.778	107	75-125	2	20	
Zinc	1100		10.0	ug/L	1000	28.0	107	75-125	2	20	

Post Spike (9G22018-PS1) Prepared: 07/22/2009 11:34 Analyzed: 07/23/2009 12:16

Source: C906040-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.03		0.0100	mg/L	1.00	0.00143	103	80-120			
Barium	1.12		0.0100	mg/L	1.00	0.0964	103	80-120			
Beryllium	0.523		0.00100	mg/L	0.500	0.00211	104	80-120			
Cadmium	0.511		0.00100	mg/L	0.500	0.000261	102	80-120			
Chromium	1.03		0.0100	mg/L	1.00	0.000782	103	80-120			
Cobalt	1.06		0.0100	mg/L	1.00	0.0354	102	80-120			
Copper	0.513		0.0100	mg/L	0.500	3.54E-5	103	80-120			
Lead	1.03	B	0.0100	mg/L	1.00	0.00221	103	80-120			
Nickel	1.04		0.0500	mg/L	1.00	0.00900	103	80-120			
Selenium	1.06		0.0100	mg/L	1.00	0.00433	105	80-120			
Silver	0.102		0.0100	mg/L	0.100	-0.000222	102	80-120			

QUALITY CONTROL

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

Batch 9G22018 - EPA 3005A

Post Spike (9G22018-PS1) Continued Prepared: 07/22/2009 11:34 Analyzed: 07/23/2009 12:16

Source: C906040-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vanadium	0.522	B	0.0100	mg/L	0.500	0.000778	104	80-120			
Zinc	1.07		0.0100	mg/L	1.00	0.0280	105	80-120			

Batch 9G22021 - EPA 3005A

Blank (9G22021-BLK1) Prepared: 07/22/2009 11:47 Analyzed: 07/25/2009 13:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.680	U	2.00	ug/L							
Thallium	0.0360	U	1.00	ug/L							

LCS (9G22021-BS1) Prepared: 07/22/2009 11:47 Analyzed: 07/25/2009 13:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.9		2.00	ug/L	25.0		108	80-120			
Thallium	26.6		1.00	ug/L	25.0		106	80-120			

Matrix Spike (9G22021-MS1) Prepared: 07/22/2009 11:47 Analyzed: 07/25/2009 13:36

Source: C906040-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.5		2.00	ug/L	25.0	0.680 U	110	75-125			
Thallium	26.5		1.00	ug/L	25.0	0.0520	106	75-125			

Matrix Spike Dup (9G22021-MSD1) Prepared: 07/22/2009 11:47 Analyzed: 07/25/2009 13:40

Source: C906040-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.8		2.00	ug/L	25.0	0.680 U	111	75-125	1	20	
Thallium	26.6		1.00	ug/L	25.0	0.0520	106	75-125	0.4	20	

Post Spike (9G22021-PS1) Prepared: 07/22/2009 11:47 Analyzed: 07/25/2009 13:50

Source: C906040-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	29.9		5.00	ug/L	25.0	-0.0180	120	80-120			
Thallium	28.9		1.00	ug/L	25.0	0.0520	115	80-120			

Batch 9G22030 - EPA 3005A

Blank (9G22030-BLK1) Prepared: 07/22/2009 15:31 Analyzed: 07/23/2009 14:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	4.20	U	10.0	ug/L							
Beryllium	0.0750	U	1.00	ug/L							

QUALITY CONTROL

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

Batch 9G22030 - EPA 3005A

Blank (9G22030-BLK1) Continued Prepared: 07/22/2009 15:31 Analyzed: 07/23/2009 14:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	**0.112**	**J**	1.00	ug/L							
Chromium	0.710	U	10.0	ug/L							
Cobalt	0.580	U	10.0	ug/L							
Copper	**1.25**	**J**	10.0	ug/L							
Lead	**2.16**	**J**	10.0	ug/L							
Nickel	0.650	U	50.0	ug/L							
Selenium	3.40	U	10.0	ug/L							
Silver	0.960	U	10.0	ug/L							
Vanadium	0.680	U	10.0	ug/L							
Zinc	3.40	U	10.0	ug/L							

LCS (9G22030-BS1) Prepared: 07/22/2009 15:31 Analyzed: 07/23/2009 14:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1120		10.0	ug/L	1000		112	80-120			
Barium	1100		10.0	ug/L	1000		110	80-120			
Beryllium	561		1.00	ug/L	500		112	80-120			
Cadmium	558	B	1.00	ug/L	500		112	80-120			
Chromium	1110		10.0	ug/L	1000		111	80-120			
Cobalt	1100		10.0	ug/L	1000		110	80-120			
Copper	551	B	10.0	ug/L	500		110	80-120			
Lead	1120	B	10.0	ug/L	1000		112	80-120			
Nickel	1120		50.0	ug/L	1000		112	80-120			
Selenium	1150		10.0	ug/L	1000		115	80-120			
Silver	110		10.0	ug/L	100		110	80-120			
Vanadium	561		10.0	ug/L	500		112	80-120			
Zinc	1140		10.0	ug/L	1000		114	80-120			

Matrix Spike (9G22030-MS1) Prepared: 07/22/2009 15:31 Analyzed: 07/23/2009 14:33

Source: C906963-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1120		10.0	ug/L	1000	2.80 U	112	75-125			
Barium	1150		10.0	ug/L	1000	37.2	112	75-125			
Beryllium	562		1.00	ug/L	500	0.359	112	75-125			
Cadmium	558	B	1.00	ug/L	500	0.328	112	75-125			
Chromium	1120		10.0	ug/L	1000	4.63	112	75-125			
Cobalt	1110		10.0	ug/L	1000	0.895	111	75-125			
Copper	551	B	10.0	ug/L	500	1.09	110	75-125			
Lead	1120	B	10.0	ug/L	1000	5.83	112	75-125			
Nickel	1130		50.0	ug/L	1000	1.49	113	75-125			
Selenium	1140		10.0	ug/L	1000	8.27	114	75-125			
Silver	111		10.0	ug/L	100	2.61	108	75-125			
Vanadium	573		10.0	ug/L	500	9.74	113	75-125			
Zinc	1140		10.0	ug/L	1000	3.40 U	114	75-125			

Matrix Spike Dup (9G22030-MSD1) Prepared: 07/22/2009 15:31 Analyzed: 07/23/2009 14:36

QUALITY CONTROL

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

Batch 9G22030 - EPA 3005A

Matrix Spike Dup (9G22030-MSD1) Continued Prepared: 07/22/2009 15:31 Analyzed: 07/23/2009 14:36

Source: C906963-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1110		10.0	ug/L	1000	2.80 U	111	75-125	0.6	20	
Barium	1160		10.0	ug/L	1000	37.2	112	75-125	0.4	20	
Beryllium	561		1.00	ug/L	500	0.359	112	75-125	0.09	20	
Cadmium	561	B	1.00	ug/L	500	0.328	112	75-125	0.6	20	
Chromium	1130		10.0	ug/L	1000	4.63	112	75-125	0.5	20	
Cobalt	1120		10.0	ug/L	1000	0.895	112	75-125	0.6	20	
Copper	554	B	10.0	ug/L	500	1.09	111	75-125	0.7	20	
Lead	1120	B	10.0	ug/L	1000	5.83	111	75-125	0.5	20	
Nickel	1140		50.0	ug/L	1000	1.49	113	75-125	0.7	20	
Selenium	1140		10.0	ug/L	1000	8.27	114	75-125	0.04	20	
Silver	109		10.0	ug/L	100	2.61	107	75-125	1	20	
Vanadium	576		10.0	ug/L	500	9.74	113	75-125	0.5	20	
Zinc	1150		10.0	ug/L	1000	3.40 U	115	75-125	0.7	20	

Post Spike (9G22030-PS1) Prepared: 07/22/2009 15:31 Analyzed: 07/23/2009 15:00

Source: C906963-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.14		0.0100	mg/L	1.00	0.000735	114	80-120			
Barium	1.18		0.0100	mg/L	1.00	0.0372	114	80-120			
Beryllium	0.572		0.00100	mg/L	0.500	0.000359	114	80-120			
Cadmium	0.571	B	0.00100	mg/L	0.500	0.000328	114	80-120			
Chromium	1.14		0.0100	mg/L	1.00	0.00463	114	80-120			
Cobalt	1.13		0.0100	mg/L	1.00	0.000895	113	80-120			
Copper	0.565	B	0.0100	mg/L	0.500	0.00109	113	80-120			
Lead	1.14	B	0.0100	mg/L	1.00	0.00583	114	80-120			
Nickel	1.16		0.0500	mg/L	1.00	0.00149	115	80-120			
Selenium	1.16		0.0100	mg/L	1.00	0.00827	116	80-120			
Silver	0.112		0.0100	mg/L	0.100	0.00261	109	80-120			
Vanadium	0.584		0.0100	mg/L	0.500	0.00974	115	80-120			
Zinc	1.17		0.0100	mg/L	1.00	0.00307	117	80-120			

Batch 9G23011 - EPA 3005A

Blank (9G23011-BLK1) Prepared: 07/23/2009 09:40 Analyzed: 07/25/2009 11:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.680	U	5.00	ug/L							
Thallium	0.0360	U	1.00	ug/L							

LCS (9G23011-BS1) Prepared: 07/23/2009 09:40 Analyzed: 07/25/2009 11:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.3		5.00	ug/L	25.0		109	80-120			
Thallium	27.1		1.00	ug/L	25.0		108	80-120			

QUALITY CONTROL

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

Batch 9G23011 - EPA 3005A

Matrix Spike (9G23011-MS1) Prepared: 07/23/2009 09:40 Analyzed: 07/25/2009 11:55

Source: C906963-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	22.0		5.00	ug/L	25.0	0.680 U	88	75-125			
Thallium	27.0		1.00	ug/L	25.0	0.0360 U	108	75-125			

Matrix Spike Dup (9G23011-MSD1) Prepared: 07/23/2009 09:40 Analyzed: 07/25/2009 11:59

Source: C906963-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	22.0		5.00	ug/L	25.0	0.680 U	88	75-125	0.1	20	
Thallium	27.0		1.00	ug/L	25.0	0.0360 U	108	75-125	0.09	20	

Post Spike (9G23011-PS1) Prepared: 07/23/2009 09:40 Analyzed: 07/25/2009 12:02

Source: C906963-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	30.2		5.00	ug/L	25.0	-0.0210	121	80-120			QM-07
Thallium	30.3		1.00	ug/L	25.0	0.0210	121	80-120			QM-07

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 1 of 2

Client Name: Golder Associates, Inc. (GO007)	Project Number: 053-6620009.100
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: 3100
Tel: (336) 852-4903 Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): Client Ryan Strangfellow / Ben Draper	Billing Contact: Ray Hoffman
Sampler(s) Signature: [signature]	Facility # (if required)

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

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility. ✓ Standard ___ Expedited Due __/__/__

Lab Workorder: C906040

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn								Sample Comments
	0803-GW2	7/20/09	14:33	G	GW	4	X	X								
	0803-GW7	7/20/09	15:24	G	GW	7	X	X								
	0803-GW8	7/21/09	8:42	G	GW	4	X	X								
	0803-GW9	7/21/09	9:27	G	GW	4	X	X								
	0803-GW10	7/21/09	12:25	G	GW	4	X	X								
	0803-GW11	7/21/09	13:09	G	GW	4	X	X								
	0803-GW13	7/21/09	13:53	G	GW	4	X	X								
	0803-GW14				GW	4	X	X								well ~~destroyed~~ abandoned
	0803-GW15	7/21/09	14:30	G	GW	4	X	X								
	0803-GW16R	7/20/09	13:31	G	GW	4	X	X								
	0803-GW17	7/20/09	13:02	G	GW	4	X	X								
	0803-PW1	7/21/09	15:15	G	GW	4	X	X								

<-- Total # of Containers

Sample Kit Prepared By: JK	Date/Time: 6-11-09	Relinquished By: [signature]	Date/Time: 7/21/09 18:50	Received By: [signature]	Date/Time: 7/21/09 18:25
Comments: 1. Please provide a "Level 2" data report. 2. Invoice Republic, files sent to Golder.		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-486 2.6°C C-594 3.3°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.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: Golder Associates, Inc. (GO007)	Project Number: 053-6620009.100
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: 3100
Tel: (336) 852-4903 / Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sample(s) Name, Affiliation (Print): Client Ryan Stringfellow / Ben Draper	Billing Contact: Ray Hoffman
Sampler(s) Signature: Ryan Stringfellow	Facility # (if required)

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

Requested Turnaround Times
Note: Rush requests subject to acceptance by the facility
✓ Standard
___ Expedited
Due __/__/__

Lab Workorder: C906040

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B App 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Sample Comments
	0803-SW1	—			SW	4	X	X	No Sample
	0803-SW2	—			SW	4	X	X	No Sample
	0803-SW3	7/21/09	17:13	G	SW	4	X	X	
	0803-SW4	7-21-09	11:24	G	SW	4	X	X	
	0803-Field Blank	7/21/09	15:35	G	WA	4	X	X	
	0803-Trip Blank	—	—	—	WA	2	X		

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
[signature]	6-11-09	Ryan Stringfellow	7/21/09 17:30	[signature]	7/21/09 1825
		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Comments:
1. Please provide a "Level 2" data report
2. Invoice Republic, files sent to Golder

Cooler #'s & Temps on Receipt: C-486 2.10°C C-594 3.3°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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: Golder Associates, Inc. (GO007)	Project Number: 053-6620009.100
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: 3100
Tel: (336) 852-4903 / Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): Client Ryan Stringfellow / Ben Draper	Billing Contact: Ray Hoffman
Sampler(s) Signature: [signature]	Facility # (if required)

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

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility. ✓ Standard ___ Expedited Due __/__/__

Lab Workorder: C906963

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn									Sample Comments
	0803-GW18	7-21-09	10:50	G	GW	4	X	X									
	0803-GW21	7-20-09	16:40	G	GW	7	X	X									

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
JK	6-22-09	[signature]	7/21/09 10:00	[signature]	7/21/09 1835
		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Comments:
1. Please provide a "Level 2" data report.
2. Invoice Republic. Files sent to Golder.

Cooler #'s & Temps on Receipt: C-594 C-486 3.6°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.

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Report Number: AXF0029

Project: East Carolina Regional Landfill

Project #:894.1402.12.02

Prepared For:
Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover, NC 28613

Attention: Mr. Matt Einsmann

June 17, 2014

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call. Analytical Services, Inc. certifies that the following analytical results meet all requirements of the National Environmental Laboratory Accreditation Conference(NELAC).All test results relate only to the samples analyzed.

Approved:

Project Manager

This report may not be reproduced, except in full, without written approval from Analytical Services, Inc.

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

June 17, 2014

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0803-GW18	AXF0029-01	Ground Water	05/30/14 15:20	06/03/14 09:35
0803-GW21	AXF0029-02	Ground Water	05/30/14 16:02	06/03/14 09:35
0803-Trip Blank	AXF0029-03	Water	05/30/14 06:00	06/03/14 09:35

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

June 17, 2014

Client ID: 0803-GW18
Lab No: AXF0029-01
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 05/30/14 15:20
Date/Time Received: 06/03/14 09:35

Report No.: AXF0029

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		1.05	7440-36-0	06/06/14 09:10	06/09/14 21:49	4060137
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.13	7440-38-2	06/06/14 09:10	06/09/14 21:49	4060137
Barium	EPA 6020A	EPA 3005A	261	100	1	ug/L		0.10	7440-39-3	06/06/14 09:10	06/09/14 21:49	4060137
Beryllium	EPA 6020A	EPA 3005A	1.27	1.00	1	ug/L		0.05	7440-41-7	06/06/14 09:10	06/09/14 21:49	4060137
Cadmium	EPA 6020A	EPA 3005A	0.05	1.00	1	ug/L	J	0.05	7440-43-9	06/06/14 09:10	06/09/14 21:49	4060137
Chromium	EPA 6020A	EPA 3005A	2.18	10.0	1	ug/L	B-01, J	0.73	7440-47-3	06/06/14 09:10	06/09/14 21:49	4060137
Cobalt	EPA 6020A	EPA 3005A	5.78	10.0	1	ug/L	J	0.26	7440-48-4	06/06/14 09:10	06/09/14 21:49	4060137
Copper	EPA 6020A	EPA 3005A	0.98	10.0	1	ug/L	J	0.22	7440-50-8	06/06/14 09:10	06/09/14 21:49	4060137
Lead	EPA 6020A	EPA 3005A	2.40	10.0	1	ug/L	J	0.05	7439-92-1	06/06/14 09:10	06/09/14 21:49	4060137
Nickel	EPA 6020A	EPA 3005A	6.80	50.0	1	ug/L	J	0.22	7440-02-0	06/06/14 09:10	06/09/14 21:49	4060137
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.01	7782-49-2	06/06/14 09:10	06/09/14 21:49	4060137
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.17	7440-22-4	06/06/14 09:10	06/09/14 21:49	4060137
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.09	7440-28-0	06/06/14 09:10	06/09/14 21:49	4060137
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		0.93	7440-62-2	06/06/14 09:10	06/13/14 13:15	4060137
Zinc	EPA 6020A	EPA 3005A	15.2	10.0	1	ug/L	B-01	0.64	7440-66-6	06/06/14 09:10	06/09/14 21:49	4060137
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		5.7	67-64-1	06/06/14 10:00	06/06/14 14:08	4060209
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.6	107-13-1	06/06/14 10:00	06/06/14 14:08	4060209
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	06/06/14 10:00	06/06/14 14:08	4060209
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	74-97-5	06/06/14 10:00	06/06/14 14:08	4060209
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	06/06/14 10:00	06/06/14 14:08	4060209

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

June 17, 2014

Client ID: 0803-GW18
Lab No: AXF0029-01
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 05/30/14 15:20
Date/Time Received: 06/03/14 09:35

Report No.: AXF0029

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	06/06/14 10:00	06/06/14 14:08	4060209
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.6	74-83-9	06/06/14 10:00	06/06/14 14:08	4060209
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	75-15-0	06/06/14 10:00	06/06/14 14:08	4060209
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	06/06/14 10:00	06/06/14 14:08	4060209
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	108-90-7	06/06/14 10:00	06/06/14 14:08	4060209
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	75-00-3	06/06/14 10:00	06/06/14 14:08	4060209
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	67-66-3	06/06/14 10:00	06/06/14 14:08	4060209
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	74-87-3	06/06/14 10:00	06/06/14 14:08	4060209
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.1	124-48-1	06/06/14 10:00	06/06/14 14:08	4060209
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		0.7	96-12-8	06/06/14 10:00	06/06/14 14:08	4060209
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	06/06/14 10:00	06/06/14 14:08	4060209
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	74-95-3	06/06/14 10:00	06/06/14 14:08	4060209
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	06/06/14 10:00	06/06/14 14:08	4060209
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	06/06/14 10:00	06/06/14 14:08	4060209
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.8	110-57-6	06/06/14 10:00	06/06/14 14:08	4060209
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	06/06/14 10:00	06/06/14 14:08	4060209
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	107-06-2	06/06/14 10:00	06/06/14 14:08	4060209
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	06/06/14 10:00	06/06/14 14:08	4060209
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	06/06/14 10:00	06/06/14 14:08	4060209
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-60-5	06/06/14 10:00	06/06/14 14:08	4060209
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	06/06/14 10:00	06/06/14 14:08	4060209
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	10061-01-5	06/06/14 10:00	06/06/14 14:08	4060209

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

June 17, 2014

Client ID: 0803-GW18
Lab No: AXF0029-01
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 05/30/14 15:20
Date/Time Received: 06/03/14 09:35

Report No.: AXF0029

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-02-6	06/06/14 10:00	06/06/14 14:08	4060209
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	06/06/14 10:00	06/06/14 14:08	4060209
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.5	74-88-4	06/06/14 10:00	06/06/14 14:08	4060209
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	591-78-6	06/06/14 10:00	06/06/14 14:08	4060209
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-09-2	06/06/14 10:00	06/06/14 14:08	4060209
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	06/06/14 10:00	06/06/14 14:08	4060209
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.4	108-10-1	06/06/14 10:00	06/06/14 14:08	4060209
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-42-5	06/06/14 10:00	06/06/14 14:08	4060209
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	06/06/14 10:00	06/06/14 14:08	4060209
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	79-34-5	06/06/14 10:00	06/06/14 14:08	4060209
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	06/06/14 10:00	06/06/14 14:08	4060209
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	06/06/14 10:00	06/06/14 14:08	4060209
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-55-6	06/06/14 10:00	06/06/14 14:08	4060209
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	06/06/14 10:00	06/06/14 14:08	4060209
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	06/06/14 10:00	06/06/14 14:08	4060209
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-69-4	06/06/14 10:00	06/06/14 14:08	4060209
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	06/06/14 10:00	06/06/14 14:08	4060209
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-05-4	06/06/14 10:00	06/06/14 14:08	4060209
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-01-4	06/06/14 10:00	06/06/14 14:08	4060209
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	1330-20-7	06/06/14 10:00	06/06/14 14:08	4060209
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	104 %		80-120				1868-53-7	06/06/14 10:00	06/06/14 14:08	4060209

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Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

June 17, 2014

Client ID: 0803-GW18
Lab No: AXF0029-01
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 05/30/14 15:20
Date/Time Received: 06/03/14 09:35

Report No.: AXF0029

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	112 %		78-120				17060-07-0	06/06/14 10:00	06/06/14 14:08	4060209
Surr: Toluene-d8	EPA 8260B	EPA 5030B	97 %		80-120				2037-26-5	06/06/14 10:00	06/06/14 14:08	4060209
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	105 %		80-120				460-00-4	06/06/14 10:00	06/06/14 14:08	4060209

ASI

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

June 17, 2014

Client ID: 0803-GW21
Lab No: AXF0029-02
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 05/30/14 16:02
Date/Time Received: 06/03/14 09:35

Report No.: AXF0029

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		1.05	7440-36-0	06/06/14 09:10	06/09/14 21:55	4060137
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.13	7440-38-2	06/06/14 09:10	06/09/14 21:55	4060137
Barium	EPA 6020A	EPA 3005A	29.8	100	1	ug/L	J	0.10	7440-39-3	06/06/14 09:10	06/09/14 21:55	4060137
Beryllium	EPA 6020A	EPA 3005A	0.09	1.00	1	ug/L	J	0.05	7440-41-7	06/06/14 09:10	06/09/14 21:55	4060137
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.05	7440-43-9	06/06/14 09:10	06/09/14 21:55	4060137
Chromium	EPA 6020A	EPA 3005A	2.93	10.0	1	ug/L	B-01, J	0.73	7440-47-3	06/06/14 09:10	06/09/14 21:55	4060137
Cobalt	EPA 6020A	EPA 3005A	0.42	10.0	1	ug/L	J	0.26	7440-48-4	06/06/14 09:10	06/09/14 21:55	4060137
Copper	EPA 6020A	EPA 3005A	0.81	10.0	1	ug/L	J	0.22	7440-50-8	06/06/14 09:10	06/09/14 21:55	4060137
Lead	EPA 6020A	EPA 3005A	2.59	10.0	1	ug/L	J	0.05	7439-92-1	06/06/14 09:10	06/09/14 21:55	4060137
Nickel	EPA 6020A	EPA 3005A	0.59	50.0	1	ug/L	J	0.22	7440-02-0	06/06/14 09:10	06/09/14 21:55	4060137
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.01	7782-49-2	06/06/14 09:10	06/09/14 21:55	4060137
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.17	7440-22-4	06/06/14 09:10	06/09/14 21:55	4060137
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.09	7440-28-0	06/06/14 09:10	06/09/14 21:55	4060137
Vanadium	EPA 6020A	EPA 3005A	4.36	25.0	1	ug/L	J	0.93	7440-62-2	06/06/14 09:10	06/13/14 13:20	4060137
Zinc	EPA 6020A	EPA 3005A	2.42	10.0	1	ug/L	B-01, J	0.64	7440-66-6	06/06/14 09:10	06/09/14 21:55	4060137
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		5.7	67-64-1	06/06/14 10:00	06/06/14 15:27	4060209
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.6	107-13-1	06/06/14 10:00	06/06/14 15:27	4060209
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	06/06/14 10:00	06/06/14 15:27	4060209
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	74-97-5	06/06/14 10:00	06/06/14 15:27	4060209
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	06/06/14 10:00	06/06/14 15:27	4060209

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

June 17, 2014

Client ID: 0803-GW21
Lab No: AXF0029-02
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 05/30/14 16:02
Date/Time Received: 06/03/14 09:35

Report No.: AXF0029

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	06/06/14 10:00	06/06/14 15:27	4060209
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.6	74-83-9	06/06/14 10:00	06/06/14 15:27	4060209
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	75-15-0	06/06/14 10:00	06/06/14 15:27	4060209
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	06/06/14 10:00	06/06/14 15:27	4060209
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	108-90-7	06/06/14 10:00	06/06/14 15:27	4060209
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	75-00-3	06/06/14 10:00	06/06/14 15:27	4060209
Chloroform	EPA 8260B	EPA 5030B	3.2	5.0	1	ug/L	J	0.2	67-66-3	06/06/14 10:00	06/06/14 15:27	4060209
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	74-87-3	06/06/14 10:00	06/06/14 15:27	4060209
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.1	124-48-1	06/06/14 10:00	06/06/14 15:27	4060209
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		0.7	96-12-8	06/06/14 10:00	06/06/14 15:27	4060209
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	06/06/14 10:00	06/06/14 15:27	4060209
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	74-95-3	06/06/14 10:00	06/06/14 15:27	4060209
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	06/06/14 10:00	06/06/14 15:27	4060209
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	06/06/14 10:00	06/06/14 15:27	4060209
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.8	110-57-6	06/06/14 10:00	06/06/14 15:27	4060209
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	06/06/14 10:00	06/06/14 15:27	4060209
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	107-06-2	06/06/14 10:00	06/06/14 15:27	4060209
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	06/06/14 10:00	06/06/14 15:27	4060209
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	06/06/14 10:00	06/06/14 15:27	4060209
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-60-5	06/06/14 10:00	06/06/14 15:27	4060209
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	06/06/14 10:00	06/06/14 15:27	4060209
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	10061-01-5	06/06/14 10:00	06/06/14 15:27	4060209

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110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

June 17, 2014

Client ID: 0803-GW21
Lab No: AXF0029-02
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 05/30/14 16:02
Date/Time Received: 06/03/14 09:35

Report No.: AXF0029

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-02-6	06/06/14 10:00	06/06/14 15:27	4060209
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	06/06/14 10:00	06/06/14 15:27	4060209
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.5	74-88-4	06/06/14 10:00	06/06/14 15:27	4060209
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	591-78-6	06/06/14 10:00	06/06/14 15:27	4060209
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-09-2	06/06/14 10:00	06/06/14 15:27	4060209
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	06/06/14 10:00	06/06/14 15:27	4060209
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.4	108-10-1	06/06/14 10:00	06/06/14 15:27	4060209
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-42-5	06/06/14 10:00	06/06/14 15:27	4060209
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	06/06/14 10:00	06/06/14 15:27	4060209
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	79-34-5	06/06/14 10:00	06/06/14 15:27	4060209
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	06/06/14 10:00	06/06/14 15:27	4060209
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	06/06/14 10:00	06/06/14 15:27	4060209
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-55-6	06/06/14 10:00	06/06/14 15:27	4060209
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	06/06/14 10:00	06/06/14 15:27	4060209
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	06/06/14 10:00	06/06/14 15:27	4060209
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-69-4	06/06/14 10:00	06/06/14 15:27	4060209
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	06/06/14 10:00	06/06/14 15:27	4060209
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-05-4	06/06/14 10:00	06/06/14 15:27	4060209
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-01-4	06/06/14 10:00	06/06/14 15:27	4060209
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	1330-20-7	06/06/14 10:00	06/06/14 15:27	4060209
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	103 %		80-120				1868-53-7	06/06/14 10:00	06/06/14 15:27	4060209

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110 Technology Parkway, Norcross, GA 30092

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

June 17, 2014

Client ID: 0803-GW21
Lab No: AXF0029-02
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 05/30/14 16:02
Date/Time Received: 06/03/14 09:35

Report No.: AXF0029

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	111 %		78-120				17060-07-0	06/06/14 10:00	06/06/14 15:27	4060209
Surr: Toluene-d8	EPA 8260B	EPA 5030B	97 %		80-120				2037-26-5	06/06/14 10:00	06/06/14 15:27	4060209
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	105 %		80-120				460-00-4	06/06/14 10:00	06/06/14 15:27	4060209

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

June 17, 2014

Client ID: 0803-Trip Blank
Lab No: AXF0029-03
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 05/30/14 06:00
Date/Time Received: 06/03/14 09:35

Report No.: AXF0029

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		5.7	67-64-1	06/06/14 10:00	06/06/14 15:53	4060209
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.6	107-13-1	06/06/14 10:00	06/06/14 15:53	4060209
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	06/06/14 10:00	06/06/14 15:53	4060209
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	74-97-5	06/06/14 10:00	06/06/14 15:53	4060209
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	06/06/14 10:00	06/06/14 15:53	4060209
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	06/06/14 10:00	06/06/14 15:53	4060209
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.6	74-83-9	06/06/14 10:00	06/06/14 15:53	4060209
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	75-15-0	06/06/14 10:00	06/06/14 15:53	4060209
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	06/06/14 10:00	06/06/14 15:53	4060209
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	108-90-7	06/06/14 10:00	06/06/14 15:53	4060209
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	75-00-3	06/06/14 10:00	06/06/14 15:53	4060209
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	67-66-3	06/06/14 10:00	06/06/14 15:53	4060209
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	74-87-3	06/06/14 10:00	06/06/14 15:53	4060209
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.1	124-48-1	06/06/14 10:00	06/06/14 15:53	4060209
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		0.7	96-12-8	06/06/14 10:00	06/06/14 15:53	4060209
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	06/06/14 10:00	06/06/14 15:53	4060209
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	74-95-3	06/06/14 10:00	06/06/14 15:53	4060209
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	06/06/14 10:00	06/06/14 15:53	4060209
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	06/06/14 10:00	06/06/14 15:53	4060209
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.8	110-57-6	06/06/14 10:00	06/06/14 15:53	4060209
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	06/06/14 10:00	06/06/14 15:53	4060209
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	107-06-2	06/06/14 10:00	06/06/14 15:53	4060209

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(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

June 17, 2014

Client ID: 0803-Trip Blank
Lab No: AXF0029-03
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 05/30/14 06:00
Date/Time Received: 06/03/14 09:35

Report No.: AXF0029

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	06/06/14 10:00	06/06/14 15:53	4060209
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	06/06/14 10:00	06/06/14 15:53	4060209
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-60-5	06/06/14 10:00	06/06/14 15:53	4060209
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	06/06/14 10:00	06/06/14 15:53	4060209
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	10061-01-5	06/06/14 10:00	06/06/14 15:53	4060209
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-02-6	06/06/14 10:00	06/06/14 15:53	4060209
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	06/06/14 10:00	06/06/14 15:53	4060209
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.5	74-88-4	06/06/14 10:00	06/06/14 15:53	4060209
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	591-78-6	06/06/14 10:00	06/06/14 15:53	4060209
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-09-2	06/06/14 10:00	06/06/14 15:53	4060209
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	06/06/14 10:00	06/06/14 15:53	4060209
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.4	108-10-1	06/06/14 10:00	06/06/14 15:53	4060209
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-42-5	06/06/14 10:00	06/06/14 15:53	4060209
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	06/06/14 10:00	06/06/14 15:53	4060209
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	79-34-5	06/06/14 10:00	06/06/14 15:53	4060209
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	06/06/14 10:00	06/06/14 15:53	4060209
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	06/06/14 10:00	06/06/14 15:53	4060209
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-55-6	06/06/14 10:00	06/06/14 15:53	4060209
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	06/06/14 10:00	06/06/14 15:53	4060209
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	06/06/14 10:00	06/06/14 15:53	4060209
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-69-4	06/06/14 10:00	06/06/14 15:53	4060209

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110 Technology Parkway, Norcross, GA 30092

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

June 17, 2014

Client ID: 0803-Trip Blank
Lab No: AXF0029-03
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 05/30/14 06:00
Date/Time Received: 06/03/14 09:35

Report No.: AXF0029

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	06/06/14 10:00	06/06/14 15:53	4060209
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-05-4	06/06/14 10:00	06/06/14 15:53	4060209
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-01-4	06/06/14 10:00	06/06/14 15:53	4060209
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	1330-20-7	06/06/14 10:00	06/06/14 15:53	4060209
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	105 %		80-120				1868-53-7	06/06/14 10:00	06/06/14 15:53	4060209
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	111 %		78-120				17060-07-0	06/06/14 10:00	06/06/14 15:53	4060209
Surr: Toluene-d8	EPA 8260B	EPA 5030B	97 %		80-120				2037-26-5	06/06/14 10:00	06/06/14 15:53	4060209
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	105 %		80-120				460-00-4	06/06/14 10:00	06/06/14 15:53	4060209

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

June 17, 2014

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4060137 - EPA 3005A										
Blank (4060137-BLK1)							Prepared: 06/06/14 Analyzed: 06/09/14			
Antimony	ND	6.00	ug/L							
Arsenic	ND	10.0	ug/L							
Barium	ND	100	ug/L							
Beryllium	ND	1.00	ug/L							
Cadmium	ND	1.00	ug/L							
Chromium	3.93	10.0	ug/L							J
Cobalt	ND	10.0	ug/L							
Copper	ND	10.0	ug/L							
Lead	ND	10.0	ug/L							
Nickel	ND	50.0	ug/L							
Selenium	ND	10.0	ug/L							
Silver	ND	10.0	ug/L							
Thallium	ND	5.50	ug/L							
Vanadium	ND	25.0	ug/L							
Zinc	1.03	10.0	ug/L							J
LCS (4060137-BS1)							Prepared: 06/06/14 Analyzed: 06/09/14			
Antimony	102	6.00	ug/L	100.00		102	80-120			
Arsenic	97.2	10.0	ug/L	100.00		97	80-120			
Barium	98.6	100	ug/L	100.00		99	80-120			J
Beryllium	99.7	1.00	ug/L	100.00		100	80-120			
Cadmium	97.2	1.00	ug/L	100.00		97	80-120			
Chromium	99.1	10.0	ug/L	100.00		99	80-120			
Cobalt	99.1	10.0	ug/L	100.00		99	80-120			
Copper	97.6	10.0	ug/L	100.00		98	80-120			
Lead	99.0	10.0	ug/L	100.00		99	80-120			
Nickel	97.6	50.0	ug/L	100.00		98	80-120			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4060137 - EPA 3005A										
LCS (4060137-BS1)							Prepared: 06/06/14 Analyzed: 06/09/14			
Selenium	94.9	10.0	ug/L	100.00		95	80-120			
Silver	99.1	10.0	ug/L	100.00		99	80-120			
Thallium	108	5.50	ug/L	100.00		108	80-120			
Vanadium	99.8	25.0	ug/L	100.00		100	80-120			
Zinc	96.1	10.0	ug/L	100.00		96	80-120			
Matrix Spike (4060137-MS1)	**Source: AXF0004-14**						Prepared: 06/06/14 Analyzed: 06/09/14			
Antimony	101	6.00	ug/L	100.00	ND	101	75-125			
Arsenic	97.9	10.0	ug/L	100.00	ND	98	75-125			
Barium	145	100	ug/L	100.00	47.4	98	75-125			
Beryllium	104	1.00	ug/L	100.00	ND	104	75-125			
Cadmium	95.8	1.00	ug/L	100.00	ND	96	75-125			
Chromium	106	10.0	ug/L	100.00	ND	106	75-125			
Cobalt	97.3	10.0	ug/L	100.00	0.30	97	75-125			
Copper	95.9	10.0	ug/L	100.00	1.20	95	75-125			
Lead	95.7	10.0	ug/L	100.00	ND	96	75-125			
Nickel	95.3	50.0	ug/L	100.00	0.99	94	75-125			
Selenium	95.9	10.0	ug/L	100.00	ND	96	75-125			
Silver	94.4	10.0	ug/L	100.00	ND	94	75-125			
Thallium	96.7	5.50	ug/L	100.00	ND	97	75-125			
Vanadium	123	25.0	ug/L	100.00	ND	123	75-125			
Zinc	99.8	10.0	ug/L	100.00	5.26	95	75-125			
Matrix Spike Dup (4060137-MSD1)	**Source: AXF0004-14**						Prepared: 06/06/14 Analyzed: 06/09/14			
Antimony	105	6.00	ug/L	100.00	ND	105	75-125	4	20	
Arsenic	98.2	10.0	ug/L	100.00	ND	98	75-125	0.3	20	
Barium	150	100	ug/L	100.00	47.4	102	75-125	3	20	

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Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4060137 - EPA 3005A										
Matrix Spike Dup (4060137-MSD1)		**Source: AXF0004-14**					Prepared: 06/06/14 Analyzed: 06/09/14			
Beryllium	103	1.00	ug/L	100.00	ND	103	75-125	0.6	20	
Cadmium	98.2	1.00	ug/L	100.00	ND	98	75-125	3	20	
Chromium	105	10.0	ug/L	100.00	ND	105	75-125	2	20	
Cobalt	97.2	10.0	ug/L	100.00	0.30	97	75-125	0.02	20	
Copper	96.1	10.0	ug/L	100.00	1.20	95	75-125	0.2	20	
Lead	96.9	10.0	ug/L	100.00	ND	97	75-125	1	20	
Nickel	94.8	50.0	ug/L	100.00	0.99	94	75-125	0.5	20	
Selenium	96.9	10.0	ug/L	100.00	ND	97	75-125	1	20	
Silver	97.3	10.0	ug/L	100.00	ND	97	75-125	3	20	
Thallium	97.7	5.50	ug/L	100.00	ND	98	75-125	1	20	
Vanadium	125	25.0	ug/L	100.00	ND	125	75-125	1	20	
Zinc	98.7	10.0	ug/L	100.00	5.26	93	75-125	1	20	
Post Spike (4060137-PS1)		**Source: AXF0004-14**					Prepared: 06/06/14 Analyzed: 06/09/14			
Antimony	94.5		ug/L	100.00	0.15	94	80-120			
Arsenic	96.1		ug/L	100.00	0.44	96	80-120			
Barium	145		ug/L	100.00	47.4	98	80-120			
Beryllium	102		ug/L	100.00	ND	102	80-120			
Cadmium	96.2		ug/L	100.00	0.01	96	80-120			
Chromium	101		ug/L	100.00	-0.01	101	80-120			
Cobalt	96.3		ug/L	100.00	0.30	96	80-120			
Copper	95.0		ug/L	100.00	1.20	94	80-120			
Lead	95.7		ug/L	100.00	0.02	96	80-120			
Nickel	94.9		ug/L	100.00	0.99	94	80-120			
Selenium	94.2		ug/L	100.00	0.34	94	80-120			
Silver	94.7		ug/L	100.00	ND	95	80-120			
Thallium	96.4		ug/L	100.00	0.06	96	80-120			

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Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4060137 - EPA 3005A										
Post Spike (4060137-PS1)		**Source: AXF0004-14**					Prepared: 06/06/14 Analyzed: 06/09/14			
Vanadium	121		ug/L	100.00	0.54	121	80-120			QM-05
Zinc	98.1		ug/L	100.00	5.26	93	80-120			

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4060209 - EPA 5030B										
Blank (4060209-BLK1)							Prepared & Analyzed: 06/06/14			
Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	0.3	1.0	ug/L							J
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	0.5	3.0	ug/L							J
Chloroethane	ND	10	ug/L							
Chloroform	ND	5.0	ug/L							
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	3.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	0.4	5.0	ug/L							J
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4060209 - EPA 5030B										
Blank (4060209-BLK1)							Prepared & Analyzed: 06/06/14			
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	100	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	0.3	1.0	ug/L							J
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	5.0	ug/L							
Surr: Dibromofluoromethane	*51*		*ug/L*	*50.000*		*102*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*49*		*ug/L*	*50.000*		*99*	*78-120*			
Surr: Toluene-d8	*49*		*ug/L*	*50.000*		*97*	*80-120*			
Surr: 4-Bromofluorobenzene	*54*		*ug/L*	*50.000*		*108*	*80-120*			
Blank (4060209-BLK2)							Prepared: 06/11/14 Analyzed: 06/12/14			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4060209 - EPA 5030B										
Blank (4060209-BLK2)							Prepared: 06/11/14 Analyzed: 06/12/14			
Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	3.0	ug/L							
Chloroethane	ND	10	ug/L							
Chloroform	ND	5.0	ug/L							
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	3.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4060209 - EPA 5030B										
Blank (4060209-BLK2)							Prepared: 06/11/14 Analyzed: 06/12/14			
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	100	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	5.0	ug/L							
Surr: Dibromofluoromethane	*52*		*ug/L*	*50.000*		*104*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*53*		*ug/L*	*50.000*		*106*	*78-120*			
Surr: Toluene-d8	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Surr: 4-Bromofluorobenzene	*53*		*ug/L*	*50.000*		*107*	*80-120*			
Matrix Spike (4060209-MS1)		**Source: AXF0126-01**					Prepared: 06/11/14 Analyzed: 06/12/14			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4060209 - EPA 5030B										
Matrix Spike (4060209-MS1)	**Source: AXF0126-01**					Prepared: 06/11/14 Analyzed: 06/12/14				
Benzene	55		ug/L	50.000	ND	110	67-134			
Chlorobenzene	56		ug/L	50.000	ND	112	69-122			
1,1-Dichloroethene	58		ug/L	50.000	ND	116	58-142			
Toluene	55		ug/L	50.000	ND	109	68-127			
Trichloroethene	55		ug/L	50.000	ND	110	72-132			
Surr: Dibromofluoromethane	*50*		*ug/L*	*50.000*		*100*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*104*	*78-120*			
Surr: Toluene-d8	*48*		*ug/L*	*50.000*		*96*	*80-120*			
Surr: 4-Bromofluorobenzene	*54*		*ug/L*	*50.000*		*108*	*80-120*			
Matrix Spike Dup (4060209-MSD1)	**Source: AXF0126-01**					Prepared: 06/11/14 Analyzed: 06/12/14				
Benzene	44		ug/L	50.000	ND	87	67-134	23	9	QR-02
Chlorobenzene	46		ug/L	50.000	ND	92	69-122	20	13	QR-02
1,1-Dichloroethene	44		ug/L	50.000	ND	88	58-142	28	9	QR-02
Toluene	43		ug/L	50.000	ND	87	68-127	23	9	QR-02
Trichloroethene	42		ug/L	50.000	ND	85	72-132	26	11	QR-02
Surr: Dibromofluoromethane	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*104*	*78-120*			
Surr: Toluene-d8	*49*		*ug/L*	*50.000*		*97*	*80-120*			
Surr: 4-Bromofluorobenzene	*54*		*ug/L*	*50.000*		*108*	*80-120*			

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Laboratory Certifications

Code	Description	Number	Expires
LA	Louisiana	02069	06/30/2014
NC	North Carolina	381	12/31/2014
NELAC	FL DOH (Non-Pot. Water, Solids) Eff:: 07/01/2013	E87315	06/30/2014
SC	South Carolina	98011001	06/30/2014
TX	Texas	T104704397-08-TX	03/31/2015
VA	Virginia	1340	12/14/2014

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Legend

Defination of Laboratory Terms

ND - Not Detected at levels greater than or equal to SWSL/RL
SWSL/RL - NC DENR Solid Waste Section LImit/Reporting Limit (Adjusted for DF/Prep Factor)
DF - Dilution Factor
MDL - Method Detection Limit

Qualifiers

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD and/or PDS due to suspected matrix interference. Sample results for the QC batch were accepted based on acceptable LCS recoveries.

J Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).

B-01 Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

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June 17, 2014

229037

CHAIN OF CUSTODY RECORD

ASI ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY NORCROSS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

PAGE: 1 OF 1

CLIENT NAME: REPUBLIC SERVICES OF NC, LLC
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
Republic Services P: 919-~~[illegible]~~ 334-3227
5111 Cain Page Rd F: 919-491-1036
Durham NC 27703 ✗ MEinsmann@republicservices.com

REPORT TO: MATT EINSMANN, P.E. CC: Van Burbach vburbach@systechengineering.com
REQUESTED COMPLETION DATE: Standard PO #:
PROJECT NAME/STATE:
EAST CAROLINA REGIONAL LANDFILL / NC
PROJECT #: 8/14, 1402, 12, 02

ANALYSIS REQUESTED

DATE	TIME (24 HR)	MATRIX CODE*	COMPOSITE/GRAB	SAMPLE IDENTIFICATION	# of containers	NC APP. I Metals 6020	NC APP. I VOC 8260	REMARKS/ADDITIONAL INFORMATION
5/30/14	1520	GW	X	0803-GW18	4	✓	✓	1
5/30/14	1402	GW	X	0803-GW21	4	✓	✓	2
5/30/14	0000	W	X	0803-TRIPBLANK	3	✓	✓	3

CONTAINER TYPE: A - 1 P - PLASTIC; B - 1 A - AMBER GLASS; G - CLEAR GLASS; V - VOA VIAL; S - STERILE; O - OTHER

PRESERVATION: 1 - HCl, 4°; 2 - H2SO4, 4°; 3 - HNO3, 4°; 4 - NaOH, 4°; 5 - NaOH/ZnAc, 4°; 6 - Na2S2O3, 4°; 7 - 4°

*MATRIX CODES: DW - DRINKING WATER; MW - WASTEWATER; GW - GROUNDWATER; SW - SURFACE WATER; ST - STORM WATER; W - WATER; S - SOIL; SL - SLUDGE; SD - SOLID; A - AIR; L - LIQUID; P - PRODUCT

SAMPLED BY/AND TITLE: Jamie Rudner / Staff Consultant DATE/TIME: 5-30-14 / 1615
RELINQUISHED BY: Jamie Rudner DATE/TIME: 6-2-14 / 17:00
RECEIVED BY: DATE/TIME:
RELINQUISHED BY: DATE/TIME:
RECEIVED BY LAB: DATE/TIME: 6/2/14 0935
SAMPLE SHIPPED VIA: UPS FED-EX COURIER CLIENT OTHER: Cooler # 8027 / 1312
Labelled Preserved Ice: Yes or No Temperature: 2°C Custody Seal: Intact Broken Missing
Please use Black Ink to complete form.

FOR LAB USE ONLY
LAB #: AXF0029
In-house location:
Entered into LIMS: 6636

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST **Printed: 6/17/2014 2:26:07PM**

Attn: Mr. Matt Einsmann

Client: Republic Services of North Carolina, LLC
Project: East Carolina Regional Landfill
Date Received: 06/03/14 09:35
Work Order: AXF0029
Logged In By: Mohammad M. Rahman

OBSERVATIONS

#Samples: 3 **#Containers:** 11

Minimum Temp(C): 2.0 **Maximum Temp(C):** 2.0 **Custody Seal(s) Used:** Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Report Number: AXF0687

Project: East Carolina Regional Landfill

Project #:[none]

Prepared For:
Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover, NC 28613

Attention: Mr. Matt Einsmann

July 10, 2014

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call. Analytical Services, Inc. certifies that the following analytical results meet all requirements of the National Environmental Laboratory Accreditation Conference(NELAC).All test results relate only to the samples analyzed.

Approved:

Project Manager

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ANALYTICAL SERVICES, INC.

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110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0803-GW18	AXF0687-01	Ground Water	06/24/14 09:00	06/25/14 10:00
0803-GW21	AXF0687-02	Ground Water	06/24/14 07:57	06/25/14 10:00
0803-Field Blank	AXF0687-03	Water	06/24/14 09:30	06/25/14 10:00
0803-Trip Blank	AXF0687-04	Water	06/24/14 05:30	06/25/14 10:00

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(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-GW18
Lab No: AXF0687-01
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 09:00
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		1.05	7440-36-0	06/30/14 08:55	07/02/14 22:54	4060718
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.13	7440-38-2	06/30/14 08:55	07/02/14 22:54	4060718
Barium	EPA 6020A	EPA 3005A	285	100	1	ug/L		0.10	7440-39-3	06/30/14 08:55	07/02/14 22:54	4060718
Beryllium	EPA 6020A	EPA 3005A	1.18	1.00	1	ug/L		0.05	7440-41-7	06/30/14 08:55	07/02/14 22:54	4060718
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.05	7440-43-9	06/30/14 08:55	07/02/14 22:54	4060718
Chromium	EPA 6020A	EPA 3005A	9.44	10.0	1	ug/L	B-01, J	0.73	7440-47-3	06/30/14 08:55	07/02/14 22:54	4060718
Cobalt	EPA 6020A	EPA 3005A	5.64	10.0	1	ug/L	J	0.26	7440-48-4	06/30/14 08:55	07/02/14 22:54	4060718
Copper	EPA 6020A	EPA 3005A	0.79	10.0	1	ug/L	B-01, J	0.22	7440-50-8	06/30/14 08:55	07/02/14 22:54	4060718
Lead	EPA 6020A	EPA 3005A	3.26	10.0	1	ug/L	J	0.05	7439-92-1	06/30/14 08:55	07/02/14 22:54	4060718
Nickel	EPA 6020A	EPA 3005A	6.61	50.0	1	ug/L	J	0.22	7440-02-0	06/30/14 08:55	07/02/14 22:54	4060718
Selenium	EPA 6020A	EPA 3005A	1.28	10.0	1	ug/L	J	1.01	7782-49-2	06/30/14 08:55	07/02/14 22:54	4060718
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.17	7440-22-4	06/30/14 08:55	07/02/14 22:54	4060718
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.09	7440-28-0	06/30/14 08:55	07/02/14 22:54	4060718
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		0.93	7440-62-2	06/30/14 08:55	07/02/14 22:54	4060718
Zinc	EPA 6020A	EPA 3005A	19.0	10.0	1	ug/L	B-01	0.64	7440-66-6	06/30/14 08:55	07/02/14 22:54	4060718
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		5.7	67-64-1	07/02/14 11:00	07/02/14 19:46	4070159
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.6	107-13-1	07/02/14 11:00	07/02/14 19:46	4070159
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	07/02/14 11:00	07/02/14 19:46	4070159
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	74-97-5	07/02/14 11:00	07/02/14 19:46	4070159
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	07/02/14 11:00	07/02/14 19:46	4070159

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-GW18
Lab No: AXF0687-01
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 09:00
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	07/02/14 11:00	07/02/14 19:46	4070159
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.6	74-83-9	07/02/14 11:00	07/02/14 19:46	4070159
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	75-15-0	07/02/14 11:00	07/02/14 19:46	4070159
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	07/02/14 11:00	07/02/14 19:46	4070159
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	108-90-7	07/02/14 11:00	07/02/14 19:46	4070159
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	75-00-3	07/02/14 11:00	07/02/14 19:46	4070159
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	67-66-3	07/02/14 11:00	07/02/14 19:46	4070159
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	74-87-3	07/02/14 11:00	07/02/14 19:46	4070159
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.1	124-48-1	07/02/14 11:00	07/02/14 19:46	4070159
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		0.7	96-12-8	07/02/14 11:00	07/02/14 19:46	4070159
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	07/02/14 11:00	07/02/14 19:46	4070159
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	74-95-3	07/02/14 11:00	07/02/14 19:46	4070159
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	07/02/14 11:00	07/02/14 19:46	4070159
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	07/02/14 11:00	07/02/14 19:46	4070159
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.8	110-57-6	07/02/14 11:00	07/02/14 19:46	4070159
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	07/02/14 11:00	07/02/14 19:46	4070159
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	107-06-2	07/02/14 11:00	07/02/14 19:46	4070159
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	07/02/14 11:00	07/02/14 19:46	4070159
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	07/02/14 11:00	07/02/14 19:46	4070159
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-60-5	07/02/14 11:00	07/02/14 19:46	4070159
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	07/02/14 11:00	07/02/14 19:46	4070159
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	10061-01-5	07/02/14 11:00	07/02/14 19:46	4070159

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-GW18
Lab No: AXF0687-01
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 09:00
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-02-6	07/02/14 11:00	07/02/14 19:46	4070159
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	07/02/14 11:00	07/02/14 19:46	4070159
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.5	74-88-4	07/02/14 11:00	07/02/14 19:46	4070159
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	591-78-6	07/02/14 11:00	07/02/14 19:46	4070159
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-09-2	07/02/14 11:00	07/02/14 19:46	4070159
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	07/02/14 11:00	07/02/14 19:46	4070159
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.4	108-10-1	07/02/14 11:00	07/02/14 19:46	4070159
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-42-5	07/02/14 11:00	07/02/14 19:46	4070159
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	07/02/14 11:00	07/02/14 19:46	4070159
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	79-34-5	07/02/14 11:00	07/02/14 19:46	4070159
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	07/02/14 11:00	07/02/14 19:46	4070159
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	07/02/14 11:00	07/02/14 19:46	4070159
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-55-6	07/02/14 11:00	07/02/14 19:46	4070159
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	07/02/14 11:00	07/02/14 19:46	4070159
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	07/02/14 11:00	07/02/14 19:46	4070159
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-69-4	07/02/14 11:00	07/02/14 19:46	4070159
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	07/02/14 11:00	07/02/14 19:46	4070159
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-05-4	07/02/14 11:00	07/02/14 19:46	4070159
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-01-4	07/02/14 11:00	07/02/14 19:46	4070159
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	1330-20-7	07/02/14 11:00	07/02/14 19:46	4070159
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	99 %		80-120				1868-53-7	07/02/14 11:00	07/02/14 19:46	4070159

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110 Technology Parkway, Norcross, GA 30092

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-GW18
Lab No: AXF0687-01
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 09:00
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	104 %		78-120				17060-07-0	07/02/14 11:00	07/02/14 19:46	4070159
Surr: Toluene-d8	EPA 8260B	EPA 5030B	95 %		80-120				2037-26-5	07/02/14 11:00	07/02/14 19:46	4070159
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	109 %		80-120				460-00-4	07/02/14 11:00	07/02/14 19:46	4070159

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-GW21
Lab No: AXF0687-02
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 07:57
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		1.05	7440-36-0	06/30/14 08:55	07/02/14 22:59	4060718
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.13	7440-38-2	06/30/14 08:55	07/02/14 22:59	4060718
Barium	EPA 6020A	EPA 3005A	27.3	100	1	ug/L	J	0.10	7440-39-3	06/30/14 08:55	07/02/14 22:59	4060718
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.05	7440-41-7	06/30/14 08:55	07/02/14 22:59	4060718
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.05	7440-43-9	06/30/14 08:55	07/02/14 22:59	4060718
Chromium	EPA 6020A	EPA 3005A	7.42	10.0	1	ug/L	B-01, J	0.73	7440-47-3	06/30/14 08:55	07/02/14 22:59	4060718
Cobalt	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.26	7440-48-4	06/30/14 08:55	07/02/14 22:59	4060718
Copper	EPA 6020A	EPA 3005A	0.42	10.0	1	ug/L	B-01, J	0.22	7440-50-8	06/30/14 08:55	07/02/14 22:59	4060718
Lead	EPA 6020A	EPA 3005A	0.70	10.0	1	ug/L	J	0.05	7439-92-1	06/30/14 08:55	07/02/14 22:59	4060718
Nickel	EPA 6020A	EPA 3005A	ND	50.0	1	ug/L		0.22	7440-02-0	06/30/14 08:55	07/02/14 22:59	4060718
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.01	7782-49-2	06/30/14 08:55	07/02/14 22:59	4060718
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.17	7440-22-4	06/30/14 08:55	07/02/14 22:59	4060718
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.09	7440-28-0	06/30/14 08:55	07/02/14 22:59	4060718
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		0.93	7440-62-2	06/30/14 08:55	07/02/14 22:59	4060718
Zinc	EPA 6020A	EPA 3005A	3.04	10.0	1	ug/L	B-01, J	0.64	7440-66-6	06/30/14 08:55	07/02/14 22:59	4060718
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		5.7	67-64-1	07/07/14 23:00	07/08/14 01:21	4070151
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.6	107-13-1	07/07/14 23:00	07/08/14 01:21	4070151
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	07/07/14 23:00	07/08/14 01:21	4070151
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	74-97-5	07/07/14 23:00	07/08/14 01:21	4070151
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	07/07/14 23:00	07/08/14 01:21	4070151

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-GW21
Lab No: AXF0687-02
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 07:57
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	07/07/14 23:00	07/08/14 01:21	4070151
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.6	74-83-9	07/07/14 23:00	07/08/14 01:21	4070151
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	75-15-0	07/07/14 23:00	07/08/14 01:21	4070151
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	07/07/14 23:00	07/08/14 01:21	4070151
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	108-90-7	07/07/14 23:00	07/08/14 01:21	4070151
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	75-00-3	07/07/14 23:00	07/08/14 01:21	4070151
Chloroform	EPA 8260B	EPA 5030B	4.2	5.0	1	ug/L	J	0.2	67-66-3	07/07/14 23:00	07/08/14 01:21	4070151
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	74-87-3	07/07/14 23:00	07/08/14 01:21	4070151
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.1	124-48-1	07/07/14 23:00	07/08/14 01:21	4070151
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		0.7	96-12-8	07/07/14 23:00	07/08/14 01:21	4070151
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	07/07/14 23:00	07/08/14 01:21	4070151
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	74-95-3	07/07/14 23:00	07/08/14 01:21	4070151
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	07/07/14 23:00	07/08/14 01:21	4070151
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	07/07/14 23:00	07/08/14 01:21	4070151
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.8	110-57-6	07/07/14 23:00	07/08/14 01:21	4070151
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	07/07/14 23:00	07/08/14 01:21	4070151
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	107-06-2	07/07/14 23:00	07/08/14 01:21	4070151
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	07/07/14 23:00	07/08/14 01:21	4070151
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	07/07/14 23:00	07/08/14 01:21	4070151
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-60-5	07/07/14 23:00	07/08/14 01:21	4070151
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	07/07/14 23:00	07/08/14 01:21	4070151
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	10061-01-5	07/07/14 23:00	07/08/14 01:21	4070151

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-GW21
Lab No: AXF0687-02
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 07:57
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-02-6	07/07/14 23:00	07/08/14 01:21	4070151
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	07/07/14 23:00	07/08/14 01:21	4070151
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.5	74-88-4	07/07/14 23:00	07/08/14 01:21	4070151
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	591-78-6	07/07/14 23:00	07/08/14 01:21	4070151
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-09-2	07/07/14 23:00	07/08/14 01:21	4070151
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	07/07/14 23:00	07/08/14 01:21	4070151
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.4	108-10-1	07/07/14 23:00	07/08/14 01:21	4070151
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-42-5	07/07/14 23:00	07/08/14 01:21	4070151
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	07/07/14 23:00	07/08/14 01:21	4070151
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	79-34-5	07/07/14 23:00	07/08/14 01:21	4070151
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	07/07/14 23:00	07/08/14 01:21	4070151
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	07/07/14 23:00	07/08/14 01:21	4070151
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-55-6	07/07/14 23:00	07/08/14 01:21	4070151
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	07/07/14 23:00	07/08/14 01:21	4070151
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	07/07/14 23:00	07/08/14 01:21	4070151
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-69-4	07/07/14 23:00	07/08/14 01:21	4070151
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	07/07/14 23:00	07/08/14 01:21	4070151
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-05-4	07/07/14 23:00	07/08/14 01:21	4070151
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-01-4	07/07/14 23:00	07/08/14 01:21	4070151
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	1330-20-7	07/07/14 23:00	07/08/14 01:21	4070151
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	102 %		80-120				1868-53-7	07/07/14 23:00	07/08/14 01:21	4070151

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-GW21
Lab No: AXF0687-02
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 07:57
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	107 %		78-120				17060-07-0	07/07/14 23:00	07/08/14 01:21	4070151
Surr: Toluene-d8	EPA 8260B	EPA 5030B	94 %		80-120				2037-26-5	07/07/14 23:00	07/08/14 01:21	4070151
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	109 %		80-120				460-00-4	07/07/14 23:00	07/08/14 01:21	4070151

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-Field Blank
Lab No: AXF0687-03
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 09:30
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		1.05	7440-36-0	06/30/14 08:55	07/02/14 23:05	4060718
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.13	7440-38-2	06/30/14 08:55	07/02/14 23:05	4060718
Barium	EPA 6020A	EPA 3005A	ND	100	1	ug/L		0.10	7440-39-3	06/30/14 08:55	07/02/14 23:05	4060718
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.05	7440-41-7	06/30/14 08:55	07/02/14 23:05	4060718
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.05	7440-43-9	06/30/14 08:55	07/02/14 23:05	4060718
Chromium	EPA 6020A	EPA 3005A	6.88	10.0	1	ug/L	B-01, J	0.73	7440-47-3	06/30/14 08:55	07/02/14 23:05	4060718
Cobalt	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.26	7440-48-4	06/30/14 08:55	07/02/14 23:05	4060718
Copper	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.22	7440-50-8	06/30/14 08:55	07/02/14 23:05	4060718
Lead	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.05	7439-92-1	06/30/14 08:55	07/02/14 23:05	4060718
Nickel	EPA 6020A	EPA 3005A	ND	50.0	1	ug/L		0.22	7440-02-0	06/30/14 08:55	07/02/14 23:05	4060718
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.01	7782-49-2	06/30/14 08:55	07/02/14 23:05	4060718
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.17	7440-22-4	06/30/14 08:55	07/02/14 23:05	4060718
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.09	7440-28-0	06/30/14 08:55	07/02/14 23:05	4060718
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		0.93	7440-62-2	06/30/14 08:55	07/02/14 23:05	4060718
Zinc	EPA 6020A	EPA 3005A	1.70	10.0	1	ug/L	B-01, J	0.64	7440-66-6	06/30/14 08:55	07/02/14 23:05	4060718
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		5.7	67-64-1	07/07/14 23:00	07/08/14 01:47	4070151
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.6	107-13-1	07/07/14 23:00	07/08/14 01:47	4070151
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	07/07/14 23:00	07/08/14 01:47	4070151
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	74-97-5	07/07/14 23:00	07/08/14 01:47	4070151
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	07/07/14 23:00	07/08/14 01:47	4070151

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-Field Blank
Lab No: AXF0687-03
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 09:30
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	07/07/14 23:00	07/08/14 01:47	4070151
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.6	74-83-9	07/07/14 23:00	07/08/14 01:47	4070151
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	75-15-0	07/07/14 23:00	07/08/14 01:47	4070151
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	07/07/14 23:00	07/08/14 01:47	4070151
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	108-90-7	07/07/14 23:00	07/08/14 01:47	4070151
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	75-00-3	07/07/14 23:00	07/08/14 01:47	4070151
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	67-66-3	07/07/14 23:00	07/08/14 01:47	4070151
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	74-87-3	07/07/14 23:00	07/08/14 01:47	4070151
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.1	124-48-1	07/07/14 23:00	07/08/14 01:47	4070151
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		0.7	96-12-8	07/07/14 23:00	07/08/14 01:47	4070151
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	07/07/14 23:00	07/08/14 01:47	4070151
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	74-95-3	07/07/14 23:00	07/08/14 01:47	4070151
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	07/07/14 23:00	07/08/14 01:47	4070151
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	07/07/14 23:00	07/08/14 01:47	4070151
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.8	110-57-6	07/07/14 23:00	07/08/14 01:47	4070151
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	07/07/14 23:00	07/08/14 01:47	4070151
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	107-06-2	07/07/14 23:00	07/08/14 01:47	4070151
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	07/07/14 23:00	07/08/14 01:47	4070151
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	07/07/14 23:00	07/08/14 01:47	4070151
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-60-5	07/07/14 23:00	07/08/14 01:47	4070151
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	07/07/14 23:00	07/08/14 01:47	4070151
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	10061-01-5	07/07/14 23:00	07/08/14 01:47	4070151

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Environmental Monitoring & Laboratory Analysis
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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-Field Blank
Lab No: AXF0687-03
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 09:30
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-02-6	07/07/14 23:00	07/08/14 01:47	4070151
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	07/07/14 23:00	07/08/14 01:47	4070151
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.5	74-88-4	07/07/14 23:00	07/08/14 01:47	4070151
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	591-78-6	07/07/14 23:00	07/08/14 01:47	4070151
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-09-2	07/07/14 23:00	07/08/14 01:47	4070151
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	07/07/14 23:00	07/08/14 01:47	4070151
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.4	108-10-1	07/07/14 23:00	07/08/14 01:47	4070151
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-42-5	07/07/14 23:00	07/08/14 01:47	4070151
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	07/07/14 23:00	07/08/14 01:47	4070151
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	79-34-5	07/07/14 23:00	07/08/14 01:47	4070151
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	07/07/14 23:00	07/08/14 01:47	4070151
Toluene	EPA 8260B	EPA 5030B	0.2	1.0	1	ug/L	J	0.2	108-88-3	07/07/14 23:00	07/08/14 01:47	4070151
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-55-6	07/07/14 23:00	07/08/14 01:47	4070151
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	07/07/14 23:00	07/08/14 01:47	4070151
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	07/07/14 23:00	07/08/14 01:47	4070151
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-69-4	07/07/14 23:00	07/08/14 01:47	4070151
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	07/07/14 23:00	07/08/14 01:47	4070151
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-05-4	07/07/14 23:00	07/08/14 01:47	4070151
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-01-4	07/07/14 23:00	07/08/14 01:47	4070151
Xylenes, total	EPA 8260B	EPA 5030B	1.8	5.0	1	ug/L	J	0.5	1330-20-7	07/07/14 23:00	07/08/14 01:47	4070151
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	101 %		80-120				1868-53-7	07/07/14 23:00	07/08/14 01:47	4070151

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-Field Blank
Lab No: AXF0687-03
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 09:30
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	106 %		78-120				17060-07-0	07/07/14 23:00	07/08/14 01:47	4070151
Surr: Toluene-d8	EPA 8260B	EPA 5030B	94 %		80-120				2037-26-5	07/07/14 23:00	07/08/14 01:47	4070151
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	111 %		80-120				460-00-4	07/07/14 23:00	07/08/14 01:47	4070151

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-Trip Blank
Lab No: AXF0687-04
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 05:30
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		5.7	67-64-1	07/07/14 23:00	07/08/14 02:13	4070151
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.6	107-13-1	07/07/14 23:00	07/08/14 02:13	4070151
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	07/07/14 23:00	07/08/14 02:13	4070151
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	74-97-5	07/07/14 23:00	07/08/14 02:13	4070151
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	07/07/14 23:00	07/08/14 02:13	4070151
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	07/07/14 23:00	07/08/14 02:13	4070151
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.6	74-83-9	07/07/14 23:00	07/08/14 02:13	4070151
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	75-15-0	07/07/14 23:00	07/08/14 02:13	4070151
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	07/07/14 23:00	07/08/14 02:13	4070151
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	108-90-7	07/07/14 23:00	07/08/14 02:13	4070151
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	75-00-3	07/07/14 23:00	07/08/14 02:13	4070151
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	67-66-3	07/07/14 23:00	07/08/14 02:13	4070151
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	74-87-3	07/07/14 23:00	07/08/14 02:13	4070151
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.1	124-48-1	07/07/14 23:00	07/08/14 02:13	4070151
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		0.7	96-12-8	07/07/14 23:00	07/08/14 02:13	4070151
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	07/07/14 23:00	07/08/14 02:13	4070151
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	74-95-3	07/07/14 23:00	07/08/14 02:13	4070151
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	07/07/14 23:00	07/08/14 02:13	4070151
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	07/07/14 23:00	07/08/14 02:13	4070151
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.8	110-57-6	07/07/14 23:00	07/08/14 02:13	4070151
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	07/07/14 23:00	07/08/14 02:13	4070151
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	107-06-2	07/07/14 23:00	07/08/14 02:13	4070151

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(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-Trip Blank
Lab No: AXF0687-04
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 05:30
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	07/07/14 23:00	07/08/14 02:13	4070151
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	07/07/14 23:00	07/08/14 02:13	4070151
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-60-5	07/07/14 23:00	07/08/14 02:13	4070151
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	07/07/14 23:00	07/08/14 02:13	4070151
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	10061-01-5	07/07/14 23:00	07/08/14 02:13	4070151
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-02-6	07/07/14 23:00	07/08/14 02:13	4070151
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	07/07/14 23:00	07/08/14 02:13	4070151
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.5	74-88-4	07/07/14 23:00	07/08/14 02:13	4070151
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	591-78-6	07/07/14 23:00	07/08/14 02:13	4070151
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-09-2	07/07/14 23:00	07/08/14 02:13	4070151
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	07/07/14 23:00	07/08/14 02:13	4070151
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.4	108-10-1	07/07/14 23:00	07/08/14 02:13	4070151
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-42-5	07/07/14 23:00	07/08/14 02:13	4070151
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	07/07/14 23:00	07/08/14 02:13	4070151
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	79-34-5	07/07/14 23:00	07/08/14 02:13	4070151
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	07/07/14 23:00	07/08/14 02:13	4070151
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	07/07/14 23:00	07/08/14 02:13	4070151
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-55-6	07/07/14 23:00	07/08/14 02:13	4070151
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	07/07/14 23:00	07/08/14 02:13	4070151
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	07/07/14 23:00	07/08/14 02:13	4070151
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-69-4	07/07/14 23:00	07/08/14 02:13	4070151

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Client ID: 0803-Trip Blank
Lab No: AXF0687-04
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 06/24/14 05:30
Date/Time Received: 06/25/14 10:00

Report No.: AXF0687

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	07/07/14 23:00	07/08/14 02:13	4070151
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-05-4	07/07/14 23:00	07/08/14 02:13	4070151
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-01-4	07/07/14 23:00	07/08/14 02:13	4070151
Xylenes, total	EPA 8260B	EPA 5030B	2.2	5.0	1	ug/L	J	0.5	1330-20-7	07/07/14 23:00	07/08/14 02:13	4070151
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	103 %		80-120				1868-53-7	07/07/14 23:00	07/08/14 02:13	4070151
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	106 %		78-120				17060-07-0	07/07/14 23:00	07/08/14 02:13	4070151
Surr: Toluene-d8	EPA 8260B	EPA 5030B	94 %		80-120				2037-26-5	07/07/14 23:00	07/08/14 02:13	4070151
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	111 %		80-120				460-00-4	07/07/14 23:00	07/08/14 02:13	4070151

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4060718 - EPA 3005A										
Blank (4060718-BLK1)							Prepared: 06/30/14 Analyzed: 07/02/14			
Antimony	2.91	6.00	ug/L							J
Arsenic	ND	10.0	ug/L							
Barium	ND	100	ug/L							
Beryllium	ND	1.00	ug/L							
Cadmium	ND	1.00	ug/L							
Chromium	8.19	10.0	ug/L							J
Cobalt	ND	10.0	ug/L							
Copper	0.23	10.0	ug/L							J
Lead	ND	10.0	ug/L							
Nickel	ND	50.0	ug/L							
Selenium	ND	10.0	ug/L							
Silver	ND	10.0	ug/L							
Thallium	ND	5.50	ug/L							
Vanadium	ND	25.0	ug/L							
Zinc	1.23	10.0	ug/L							J
LCS (4060718-BS1)							Prepared: 06/30/14 Analyzed: 07/03/14			
Antimony	117	6.00	ug/L	100.00		117	80-120			
Arsenic	102	10.0	ug/L	100.00		102	80-120			
Barium	104	100	ug/L	100.00		104	80-120			
Beryllium	99.7	1.00	ug/L	100.00		100	80-120			
Cadmium	101	1.00	ug/L	100.00		101	80-120			
Chromium	113	10.0	ug/L	100.00		113	80-120			
Cobalt	106	10.0	ug/L	100.00		106	80-120			
Copper	105	10.0	ug/L	100.00		105	80-120			
Lead	106	10.0	ug/L	100.00		106	80-120			
Nickel	106	50.0	ug/L	100.00		106	80-120			

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1220 Commerce Street, SW
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Attention: Mr. Matt Einsmann

July 10, 2014

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4060718 - EPA 3005A										
LCS (4060718-BS1)							Prepared: 06/30/14 Analyzed: 07/02/14			
Selenium	99.8	10.0	ug/L	100.00		100	80-120			
Silver	105	10.0	ug/L	100.00		105	80-120			
Thallium	106	5.50	ug/L	100.00		106	80-120			
Vanadium	105	25.0	ug/L	100.00		105	80-120			
Zinc	103	10.0	ug/L	100.00		103	80-120			
Matrix Spike (4060718-MS1)	Source: AXF0597-38						Prepared: 06/30/14 Analyzed: 07/03/14			
Antimony	118	6.00	ug/L	100.00	3.61	114	75-125			
Arsenic	99.6	10.0	ug/L	100.00	ND	100	75-125			
Barium	312	100	ug/L	100.00	223	89	75-125			
Beryllium	96.8	1.00	ug/L	100.00	1.20	96	75-125			
Cadmium	101	1.00	ug/L	100.00	ND	101	75-125			
Chromium	104	10.0	ug/L	100.00	8.22	96	75-125			
Cobalt	107	10.0	ug/L	100.00	5.24	102	75-125			
Copper	105	10.0	ug/L	100.00	1.23	103	75-125			
Lead	124	10.0	ug/L	100.00	14.8	110	75-125			
Nickel	106	50.0	ug/L	100.00	4.69	101	75-125			
Selenium	97.0	10.0	ug/L	100.00	ND	97	75-125			
Silver	104	10.0	ug/L	100.00	ND	104	75-125			
Thallium	108	5.50	ug/L	100.00	ND	108	75-125			
Vanadium	101	25.0	ug/L	100.00	ND	101	75-125			
Zinc	109	10.0	ug/L	100.00	9.09	100	75-125			
Matrix Spike Dup (4060718-MSD1)	Source: AXF0597-38						Prepared: 06/30/14 Analyzed: 07/03/14			
Antimony	116	6.00	ug/L	100.00	3.61	112	75-125	2	20	
Arsenic	100	10.0	ug/L	100.00	ND	100	75-125	0.3	20	
Barium	311	100	ug/L	100.00	223	89	75-125	0.06	20	

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4060718 - EPA 3005A										
Matrix Spike Dup (4060718-MSD1)		**Source: AXF0597-38**					Prepared: 06/30/14 Analyzed: 07/02/14			
Beryllium	97.9	1.00	ug/L	100.00	1.20	97	75-125	1	20	
Cadmium	102	1.00	ug/L	100.00	ND	102	75-125	1	20	
Chromium	107	10.0	ug/L	100.00	8.22	99	75-125	3	20	
Cobalt	111	10.0	ug/L	100.00	5.24	106	75-125	3	20	
Copper	106	10.0	ug/L	100.00	1.23	105	75-125	2	20	
Lead	128	10.0	ug/L	100.00	14.8	113	75-125	2	20	
Nickel	110	50.0	ug/L	100.00	4.69	105	75-125	3	20	
Selenium	99.6	10.0	ug/L	100.00	ND	100	75-125	3	20	
Silver	106	10.0	ug/L	100.00	ND	106	75-125	2	20	
Thallium	112	5.50	ug/L	100.00	ND	112	75-125	4	20	
Vanadium	97.9	25.0	ug/L	100.00	ND	98	75-125	3	20	
Zinc	112	10.0	ug/L	100.00	9.09	103	75-125	2	20	
Post Spike (4060718-PS1)		**Source: AXF0597-38**					Prepared: 06/30/14 Analyzed: 07/03/14			
Antimony	113		ug/L	100.00	3.61	109	80-120			
Arsenic	101		ug/L	100.00	-2.97	104	80-120			
Barium	312		ug/L	100.00	223	89	80-120			
Beryllium	97.0		ug/L	100.00	1.20	96	80-120			
Cadmium	103		ug/L	100.00	0.01	103	80-120			
Chromium	106		ug/L	100.00	8.22	98	80-120			
Cobalt	110		ug/L	100.00	5.24	105	80-120			
Copper	105		ug/L	100.00	1.23	104	80-120			
Lead	129		ug/L	100.00	14.8	114	80-120			
Nickel	108		ug/L	100.00	4.69	104	80-120			
Selenium	96.8		ug/L	100.00	-0.54	97	80-120			
Silver	105		ug/L	100.00	ND	105	80-120			
Thallium	113		ug/L	100.00	-0.01	113	80-120			

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4060718 - EPA 3005A										
Post Spike (4060718-PS1)		**Source: AXF0597-38**					Prepared: 06/30/14 Analyzed: 07/03/14			
Vanadium	104		ug/L	100.00	-4.36	108	80-120			
Zinc	113		ug/L	100.00	9.09	104	80-120			

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4070151 - EPA 5030B										
Blank (4070151-BLK1)							Prepared: 07/07/14 Analyzed: 07/08/14			
Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	3.0	ug/L							
Chloroethane	ND	10	ug/L							
Chloroform	ND	5.0	ug/L							
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	3.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

July 10, 2014

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4070151 - EPA 5030B										
Blank (4070151-BLK1)							Prepared: 07/07/14 Analyzed: 07/08/14			
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	100	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	5.0	ug/L							
Surr: Dibromofluoromethane	*52*		*ug/L*	*50.000*		*104*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*55*		*ug/L*	*50.000*		*110*	*78-120*			
Surr: Toluene-d8	*49*		*ug/L*	*50.000*		*99*	*80-120*			
Surr: 4-Bromofluorobenzene	*56*		*ug/L*	*50.000*		*112*	*80-120*			
LCS (4070151-BS1)							Prepared & Analyzed: 07/07/14			

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4070151 - EPA 5030B										
LCS (4070151-BS1)							Prepared & Analyzed: 07/07/14			
Benzene	52		ug/L	50.000		104	67-134			
Chlorobenzene	50		ug/L	50.000		101	69-122			
1,1-Dichloroethene	50		ug/L	50.000		101	58-142			
Toluene	53		ug/L	50.000		105	68-127			
Trichloroethene	53		ug/L	50.000		107	72-132			
Surr: Dibromofluoromethane	*54*		*ug/L*	*50.000*		*109*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*53*		*ug/L*	*50.000*		*107*	*78-120*			
Surr: Toluene-d8	*53*		*ug/L*	*50.000*		*106*	*80-120*			
Surr: 4-Bromofluorobenzene	*50*		*ug/L*	*50.000*		*101*	*80-120*			
Matrix Spike (4070151-MS1)		**Source: AXG0056-01**					Prepared: 07/07/14 Analyzed: 07/08/14			
Benzene	20		ug/L	50.000	ND	40	67-134			QM-05
Chlorobenzene	20		ug/L	50.000	ND	39	69-122			QM-05
1,1-Dichloroethene	22		ug/L	50.000	ND	44	58-142			QM-05
Toluene	19		ug/L	50.000	ND	38	68-127			QM-05
Trichloroethene	55		ug/L	50.000	30	50	72-132			QM-05
Surr: Dibromofluoromethane	*54*		*ug/L*	*50.000*		*109*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*56*		*ug/L*	*50.000*		*111*	*78-120*			
Surr: Toluene-d8	*55*		*ug/L*	*50.000*		*109*	*80-120*			
Surr: 4-Bromofluorobenzene	*50*		*ug/L*	*50.000*		*101*	*80-120*			
Matrix Spike Dup (4070151-MSD1)		**Source: AXG0056-01**					Prepared: 07/07/14 Analyzed: 07/08/14			
Benzene	27		ug/L	50.000	ND	54	67-134	30	9	QM-06
Chlorobenzene	26		ug/L	50.000	ND	52	69-122	28	13	QM-06
1,1-Dichloroethene	28		ug/L	50.000	ND	56	58-142	25	9	QM-06

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Attention: Mr. Matt Einsmann

July 10, 2014

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4070151 - EPA 5030B										
Matrix Spike Dup (4070151-MSD1)	**Source: AXG0056-01**						Prepared: 07/07/14 Analyzed: 07/08/14			
Toluene	26		ug/L	50.000	ND	53	68-127	32	9	QM-06
Trichloroethene	40		ug/L	50.000	30	21	72-132	31	11	QM-06
Surr: Dibromofluoromethane	*54*		*ug/L*	*50.000*		*108*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*55*		*ug/L*	*50.000*		*110*	*78-120*			
Surr: Toluene-d8	*54*		*ug/L*	*50.000*		*109*	*80-120*			
Surr: 4-Bromofluorobenzene	*50*		*ug/L*	*50.000*		*101*	*80-120*			
Batch 4070159 - EPA 5030B										
Blank (4070159-BLK1)							Prepared & Analyzed: 07/02/14			
Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	3.0	ug/L							
Chloroethane	ND	10	ug/L							
Chloroform	ND	5.0	ug/L							
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	3.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4070159 - EPA 5030B										
Blank (4070159-BLK1)							Prepared & Analyzed: 07/02/14			
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	100	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4070159 - EPA 5030B										
Blank (4070159-BLK1)							Prepared & Analyzed: 07/02/14			
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	5.0	ug/L							
Surr: Dibromofluoromethane	*51*		*ug/L*	*50.000*		*102*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*47*		*ug/L*	*50.000*		*94*	*78-120*			
Surr: Toluene-d8	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Surr: 4-Bromofluorobenzene	*54*		*ug/L*	*50.000*		*109*	*80-120*			
Blank (4070159-BLK2)							Prepared & Analyzed: 07/03/14			
Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	3.0	ug/L							
Chloroethane	ND	10	ug/L							
Chloroform	ND	5.0	ug/L							
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	3.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4070159 - EPA 5030B										
Blank (4070159-BLK2)							Prepared & Analyzed: 07/03/14			
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	100	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							

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July 10, 2014

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4070159 - EPA 5030B										
Blank (4070159-BLK2)							Prepared & Analyzed: 07/03/14			
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	5.0	ug/L							
Surr: Dibromofluoromethane	*51*		*ug/L*	*50.000*		*102*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*105*	*78-120*			
Surr: Toluene-d8	*48*		*ug/L*	*50.000*		*97*	*80-120*			
Surr: 4-Bromofluorobenzene	*54*		*ug/L*	*50.000*		*109*	*80-120*			
LCS (4070159-BS1)							Prepared & Analyzed: 07/02/14			
Benzene	54		ug/L	50.000		108	67-134			
Chlorobenzene	56		ug/L	50.000		112	69-122			
1,1-Dichloroethene	48		ug/L	50.000		96	58-142			
Toluene	48		ug/L	50.000		96	68-127			
Trichloroethene	48		ug/L	50.000		96	72-132			
Surr: Dibromofluoromethane	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*50*		*ug/L*	*50.000*		*100*	*78-120*			
Surr: Toluene-d8	*48*		*ug/L*	*50.000*		*96*	*80-120*			
Surr: 4-Bromofluorobenzene	*53*		*ug/L*	*50.000*		*107*	*80-120*			
Matrix Spike (4070159-MS1)	**Source: AXF0687-01**						Prepared & Analyzed: 07/03/14			
Benzene	57		ug/L	50.000	ND	113	67-134			
Chlorobenzene	59		ug/L	50.000	ND	119	69-122			
1,1-Dichloroethene	57		ug/L	50.000	ND	114	58-142			
Toluene	51		ug/L	50.000	ND	102	68-127			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4070159 - EPA 5030B										
Matrix Spike (4070159-MS1)		**Source: AXF0687-01**					Prepared & Analyzed: 07/03/14			
Trichloroethene	50		ug/L	50.000	ND	101	72-132			
Surr: Dibromofluoromethane	*48*		*ug/L*	*50.000*		*97*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*50*		*ug/L*	*50.000*		*100*	*78-120*			
Surr: Toluene-d8	*48*		*ug/L*	*50.000*		*96*	*80-120*			
Surr: 4-Bromofluorobenzene	*55*		*ug/L*	*50.000*		*110*	*80-120*			
Matrix Spike Dup (4070159-MSD1)		**Source: AXF0687-01**					Prepared & Analyzed: 07/03/14			
Benzene	11		ug/L	50.000	ND	23	67-134	133	9	QM-06
Chlorobenzene	12		ug/L	50.000	ND	25	69-122	131	13	QM-06
1,1-Dichloroethene	12		ug/L	50.000	ND	25	58-142	129	9	QM-06
Toluene	11		ug/L	50.000	ND	22	68-127	130	9	QM-06
Trichloroethene	11		ug/L	50.000	ND	22	72-132	128	11	QM-06
Surr: Dibromofluoromethane	*50*		*ug/L*	*50.000*		*99*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*104*	*78-120*			
Surr: Toluene-d8	*48*		*ug/L*	*50.000*		*95*	*80-120*			
Surr: 4-Bromofluorobenzene	*54*		*ug/L*	*50.000*		*109*	*80-120*			

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July 10, 2014

Laboratory Certifications

Code	Description	Number	Expires
LA	Louisiana	02069	06/30/2015
NC	North Carolina	381	12/31/2014
NELAC	FL DOH (Non-Pot. Water, Solids) Eff:: 07/01/2013	E87315	06/30/2015
SC	South Carolina	98011001	08/30/2014
TX	Texas	T104704397-08-TX	03/31/2015
VA	Virginia	1340	12/14/2014

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July 10, 2014

Legend

Defination of Laboratory Terms

ND - Not Detected at levels greater than or equal to SWSL/RL
SWSL/RL - NC DENR Solid Waste Section LImit/Reporting Limit (Adjusted for DF/Prep Factor)
DF - Dilution Factor
MDL - Method Detection Limit

Qualifiers

QM-06 Due to suspected matrix interference, RPD and Percent Recovery values for the MS and/or MSD were outside control limits. Sample results for the QC batch were accepted based on acceptable LCS recoveries.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD and/or PDS due to suspected matrix interference. Sample results for the QC batch were accepted based on acceptable LCS recoveries.

J Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).

B-01 Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

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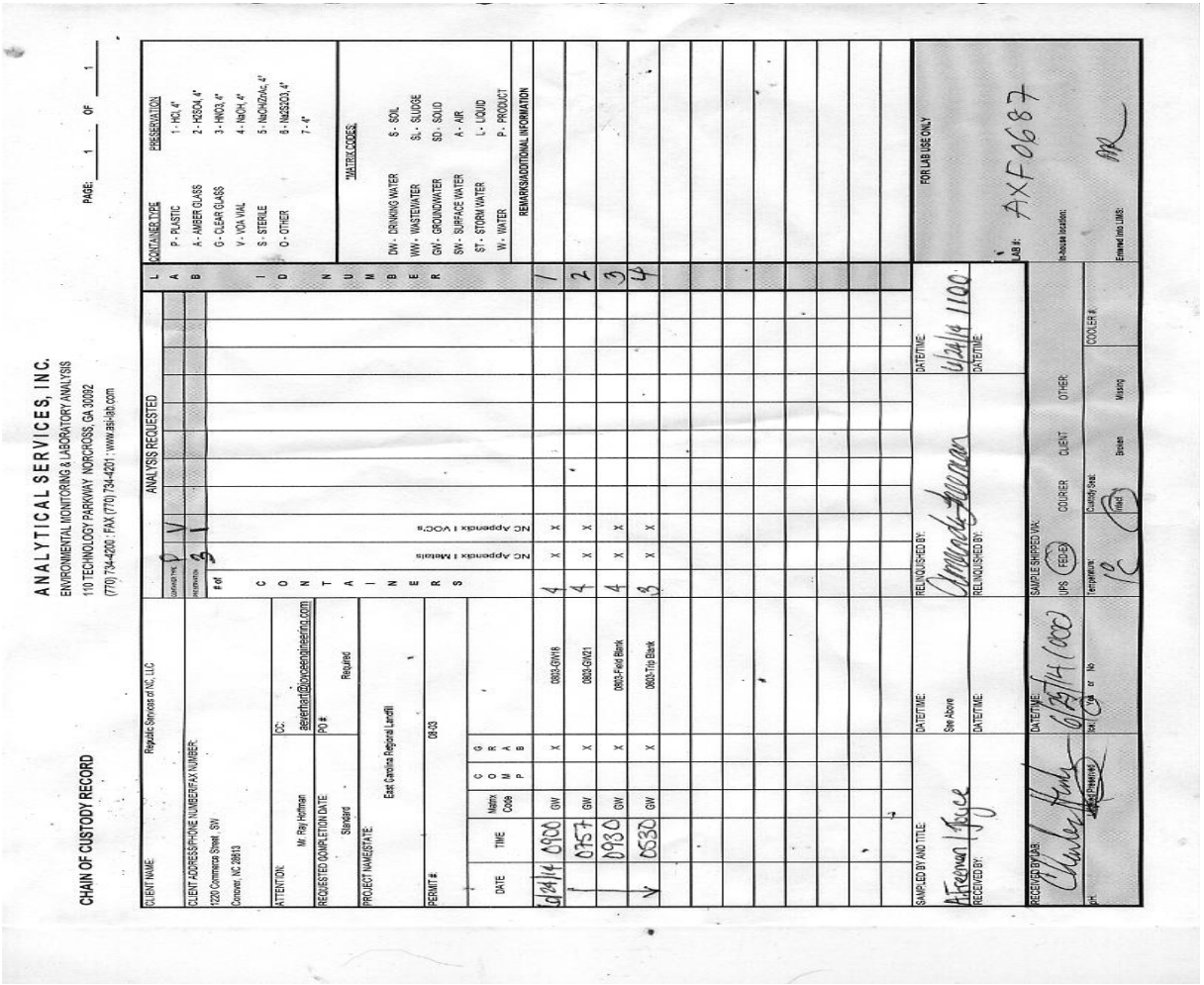

ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
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(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

CHAIN OF CUSTODY RECORD

PAGE: 1 OF 1

CLIENT NAME: Republic Services of NC, LLC

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
1220 Commerce Street, SW
Conover, NC 28613

ATTENTION: Mr. Ray Hoffman
CC: aleverhart@lovceengineering.com

REQUESTED COMPLETION DATE: Standard
PO # Required

PROJECT NAME/SITE: East Carolina Regional Landfill

PERMIT #: 08-03

ANALYSIS REQUESTED: NC Appendix I Metals; NC Appendix I VOC's

DATE	TIME	Matrix Code	# of containers	NC Appendix I Metals	NC Appendix I VOC's	L O C A T I O N	REMARKS/ADDITIONAL INFORMATION
6/24/14	0900	GW	4	X	X	A	1
	0757	GW	4	X	X	B	2
	0930	GW	4	X	X		3
	0530	GW	3	X	X		4

CONTAINER TYPE: P - PLASTIC; A - AMBER GLASS; G - CLEAR GLASS; V - VOA VIAL; S - STERILE; O - OTHER

PRESERVATION: 1 - HCl, 4°; 2 - H2SO4, 4°; 3 - HNO3, 4°; 4 - NaOH, 4°; 5 - NaOH/ZnAc, 4°; 6 - Na2S2O3, 4°; 7 - 4°

MATRIX CODES: DW - DRINKING WATER; WW - WASTEWATER; GW - GROUNDWATER; SW - SURFACE WATER; ST - STORM WATER; W - WATER; S - SOIL; SL - SLUDGE; SD - SOLID; A - AIR; L - LIQUID; P - PRODUCT

SAMPLED BY AND TITLE: A Freeman / Joyce — DATE/TIME: See Above

RECEIVED BY: — DATE/TIME:

RELINQUISHED BY: Amanda Freeman — DATE/TIME: 6/24/14 1100

RECEIVED BY: — DATE/TIME:

RELINQUISHED BY: — DATE/TIME:

SAMPLE SHIPPED VIA: UPS (FEDEX) COURIER CLIENT OTHER:

Temperature: 18 — Custody Seal: Intact Broken Missing — COOLER #:

Chain of Custody Signature(s) — Date: 6/25/14 (000) — Ice: Yes or No

FOR LAB USE ONLY
LAB #: AXF0687
In-house location:
Entered into LIMS: AR

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST **Printed: 7/10/2014 2:44:47PM**

Attn: Mr. Matt Einsmann

Client: Republic Services of North Carolina, LLC
Project: East Carolina Regional Landfill
Date Received: 06/25/14 10:00

Work Order: AXF0687
Logged In By: Mohammad M. Rahman

OBSERVATIONS

#Samples: 4 **#Containers:** 15

Minimum Temp(C): 1.0 **Maximum Temp(C):** 1.0 **Custody Seal(s) Used:** Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Report Number: AXG0700

Project: East Carolina Regional Landfill

Project #:[none]

Prepared For:
Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover, NC 28613

Attention: Mr. Matt Einsmann

August 21, 2014

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call. Analytical Services, Inc. certifies that the following analytical results meet all requirements of the National Environmental Laboratory Accreditation Conference(NELAC).All test results relate only to the samples analyzed.

Approved:

Project Manager

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0803-GW18	AXG0700-12	Ground Water	07/24/14 14:57	07/25/14 09:45
0803-GW21	AXG0700-13	Ground Water	07/24/14 12:29	07/25/14 09:45

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

Case Narrative

East Carolina report AXG0700 - 8/21/2014
Work order revised for consultant request to report background samples separately

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110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

Client ID: 0803-GW18
Lab No: AXG0700-12
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 07/24/14 14:57
Date/Time Received: 07/25/14 09:45

Report No.: AXG0700

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		1.05	7440-36-0	07/30/14 09:00	07/30/14 21:16	4070638
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.13	7440-38-2	07/30/14 09:00	07/30/14 21:16	4070638
Barium	EPA 6020A	EPA 3005A	209	100	1	ug/L		0.10	7440-39-3	07/30/14 09:00	07/30/14 21:16	4070638
Beryllium	EPA 6020A	EPA 3005A	0.91	1.00	1	ug/L	J	0.05	7440-41-7	07/30/14 09:00	07/30/14 21:16	4070638
Cadmium	EPA 6020A	EPA 3005A	0.05	1.00	1	ug/L	J	0.05	7440-43-9	07/30/14 09:00	07/30/14 21:16	4070638
Chromium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.73	7440-47-3	07/30/14 09:00	07/30/14 21:16	4070638
Cobalt	EPA 6020A	EPA 3005A	4.06	10.0	1	ug/L	J	0.26	7440-48-4	07/30/14 09:00	07/30/14 21:16	4070638
Copper	EPA 6020A	EPA 3005A	0.39	10.0	1	ug/L	J	0.22	7440-50-8	07/30/14 09:00	07/30/14 21:16	4070638
Lead	EPA 6020A	EPA 3005A	2.78	10.0	1	ug/L	J	0.05	7439-92-1	07/30/14 09:00	07/30/14 21:16	4070638
Nickel	EPA 6020A	EPA 3005A	4.58	50.0	1	ug/L	J	0.22	7440-02-0	07/30/14 09:00	07/30/14 21:16	4070638
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.01	7782-49-2	07/30/14 09:00	07/30/14 21:16	4070638
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.17	7440-22-4	07/30/14 09:00	07/30/14 21:16	4070638
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.09	7440-28-0	07/30/14 09:00	07/30/14 21:16	4070638
Vanadium	EPA 6020A	EPA 3005A	1.20	25.0	1	ug/L	B-01, J	0.93	7440-62-2	07/30/14 09:00	07/30/14 21:16	4070638
Zinc	EPA 6020A	EPA 3005A	7.39	10.0	1	ug/L	B-01, J	0.64	7440-66-6	07/30/14 09:00	07/30/14 21:16	4070638
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		5.7	67-64-1	07/31/14 13:00	07/31/14 17:37	4080001
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.6	107-13-1	07/31/14 13:00	07/31/14 17:37	4080001
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	07/31/14 13:00	07/31/14 17:37	4080001
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	74-97-5	07/31/14 13:00	07/31/14 17:37	4080001
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	07/31/14 13:00	07/31/14 17:37	4080001

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ANALYTICAL SERVICES, INC.

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(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

Client ID: 0803-GW18
Lab No: AXG0700-12
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 07/24/14 14:57
Date/Time Received: 07/25/14 09:45

Report No.: AXG0700

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	07/31/14 13:00	07/31/14 17:37	4080001
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.6	74-83-9	07/31/14 13:00	07/31/14 17:37	4080001
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	75-15-0	07/31/14 13:00	07/31/14 17:37	4080001
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	07/31/14 13:00	07/31/14 17:37	4080001
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	108-90-7	07/31/14 13:00	07/31/14 17:37	4080001
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	75-00-3	07/31/14 13:00	07/31/14 17:37	4080001
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	67-66-3	07/31/14 13:00	07/31/14 17:37	4080001
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	74-87-3	07/31/14 13:00	07/31/14 17:37	4080001
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.1	124-48-1	07/31/14 13:00	07/31/14 17:37	4080001
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		0.7	96-12-8	07/31/14 13:00	07/31/14 17:37	4080001
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	07/31/14 13:00	07/31/14 17:37	4080001
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	74-95-3	07/31/14 13:00	07/31/14 17:37	4080001
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	07/31/14 13:00	07/31/14 17:37	4080001
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	07/31/14 13:00	07/31/14 17:37	4080001
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.8	110-57-6	07/31/14 13:00	07/31/14 17:37	4080001
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	07/31/14 13:00	07/31/14 17:37	4080001
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	107-06-2	07/31/14 13:00	07/31/14 17:37	4080001
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	07/31/14 13:00	07/31/14 17:37	4080001
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	07/31/14 13:00	07/31/14 17:37	4080001
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-60-5	07/31/14 13:00	07/31/14 17:37	4080001
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	07/31/14 13:00	07/31/14 17:37	4080001
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	10061-01-5	07/31/14 13:00	07/31/14 17:37	4080001

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

Client ID: 0803-GW18
Lab No: AXG0700-12
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 07/24/14 14:57
Date/Time Received: 07/25/14 09:45

Report No.: AXG0700

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-02-6	07/31/14 13:00	07/31/14 17:37	4080001
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	07/31/14 13:00	07/31/14 17:37	4080001
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.5	74-88-4	07/31/14 13:00	07/31/14 17:37	4080001
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	591-78-6	07/31/14 13:00	07/31/14 17:37	4080001
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-09-2	07/31/14 13:00	07/31/14 17:37	4080001
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	07/31/14 13:00	07/31/14 17:37	4080001
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.4	108-10-1	07/31/14 13:00	07/31/14 17:37	4080001
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-42-5	07/31/14 13:00	07/31/14 17:37	4080001
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	07/31/14 13:00	07/31/14 17:37	4080001
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	79-34-5	07/31/14 13:00	07/31/14 17:37	4080001
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	07/31/14 13:00	07/31/14 17:37	4080001
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	07/31/14 13:00	07/31/14 17:37	4080001
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-55-6	07/31/14 13:00	07/31/14 17:37	4080001
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	07/31/14 13:00	07/31/14 17:37	4080001
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	07/31/14 13:00	07/31/14 17:37	4080001
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-69-4	07/31/14 13:00	07/31/14 17:37	4080001
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	07/31/14 13:00	07/31/14 17:37	4080001
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-05-4	07/31/14 13:00	07/31/14 17:37	4080001
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-01-4	07/31/14 13:00	07/31/14 17:37	4080001
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	1330-20-7	07/31/14 13:00	07/31/14 17:37	4080001
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	96 %		80-120				1868-53-7	07/31/14 13:00	07/31/14 17:37	4080001

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

Client ID: 0803-GW18
Lab No: AXG0700-12
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 07/24/14 14:57
Date/Time Received: 07/25/14 09:45

Report No.: AXG0700

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	111 %		78-120				17060-07-0	07/31/14 13:00	07/31/14 17:37	4080001
Surr: Toluene-d8	EPA 8260B	EPA 5030B	97 %		80-120				2037-26-5	07/31/14 13:00	07/31/14 17:37	4080001
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	106 %		80-120				460-00-4	07/31/14 13:00	07/31/14 17:37	4080001

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

Client ID: 0803-GW21
Lab No: AXG0700-13
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 07/24/14 12:29
Date/Time Received: 07/25/14 09:45

Report No.: AXG0700

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		1.05	7440-36-0	07/30/14 09:00	07/30/14 21:22	4070638
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.13	7440-38-2	07/30/14 09:00	07/30/14 21:22	4070638
Barium	EPA 6020A	EPA 3005A	23.9	100	1	ug/L	J	0.10	7440-39-3	07/30/14 09:00	07/30/14 21:22	4070638
Beryllium	EPA 6020A	EPA 3005A	0.09	1.00	1	ug/L	J	0.05	7440-41-7	07/30/14 09:00	07/30/14 21:22	4070638
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.05	7440-43-9	07/30/14 09:00	07/30/14 21:22	4070638
Chromium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.73	7440-47-3	07/30/14 09:00	07/30/14 21:22	4070638
Cobalt	EPA 6020A	EPA 3005A	0.33	10.0	1	ug/L	J	0.26	7440-48-4	07/30/14 09:00	07/30/14 21:22	4070638
Copper	EPA 6020A	EPA 3005A	0.46	10.0	1	ug/L	J	0.22	7440-50-8	07/30/14 09:00	07/30/14 21:22	4070638
Lead	EPA 6020A	EPA 3005A	1.62	10.0	1	ug/L	J	0.05	7439-92-1	07/30/14 09:00	07/30/14 21:22	4070638
Nickel	EPA 6020A	EPA 3005A	0.38	50.0	1	ug/L	J	0.22	7440-02-0	07/30/14 09:00	07/30/14 21:22	4070638
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.01	7782-49-2	07/30/14 09:00	07/30/14 21:22	4070638
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.17	7440-22-4	07/30/14 09:00	07/30/14 21:22	4070638
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.09	7440-28-0	07/30/14 09:00	07/30/14 21:22	4070638
Vanadium	EPA 6020A	EPA 3005A	4.69	25.0	1	ug/L	B-01, J	0.93	7440-62-2	07/30/14 09:00	07/30/14 21:22	4070638
Zinc	EPA 6020A	EPA 3005A	1.29	10.0	1	ug/L	B-01, J	0.64	7440-66-6	07/30/14 09:00	07/30/14 21:22	4070638
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		5.7	67-64-1	07/31/14 13:00	07/31/14 18:04	4080001
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.6	107-13-1	07/31/14 13:00	07/31/14 18:04	4080001
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	07/31/14 13:00	07/31/14 18:04	4080001
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	74-97-5	07/31/14 13:00	07/31/14 18:04	4080001
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	07/31/14 13:00	07/31/14 18:04	4080001

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

Client ID: 0803-GW21
Lab No: AXG0700-13
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 07/24/14 12:29
Date/Time Received: 07/25/14 09:45

Report No.: AXG0700

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	07/31/14 13:00	07/31/14 18:04	4080001
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.6	74-83-9	07/31/14 13:00	07/31/14 18:04	4080001
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	75-15-0	07/31/14 13:00	07/31/14 18:04	4080001
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	07/31/14 13:00	07/31/14 18:04	4080001
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	108-90-7	07/31/14 13:00	07/31/14 18:04	4080001
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	75-00-3	07/31/14 13:00	07/31/14 18:04	4080001
Chloroform	EPA 8260B	EPA 5030B	3.8	5.0	1	ug/L	J	0.2	67-66-3	07/31/14 13:00	07/31/14 18:04	4080001
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	74-87-3	07/31/14 13:00	07/31/14 18:04	4080001
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.1	124-48-1	07/31/14 13:00	07/31/14 18:04	4080001
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		0.7	96-12-8	07/31/14 13:00	07/31/14 18:04	4080001
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	07/31/14 13:00	07/31/14 18:04	4080001
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	74-95-3	07/31/14 13:00	07/31/14 18:04	4080001
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	07/31/14 13:00	07/31/14 18:04	4080001
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	07/31/14 13:00	07/31/14 18:04	4080001
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.8	110-57-6	07/31/14 13:00	07/31/14 18:04	4080001
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	07/31/14 13:00	07/31/14 18:04	4080001
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	107-06-2	07/31/14 13:00	07/31/14 18:04	4080001
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	07/31/14 13:00	07/31/14 18:04	4080001
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	07/31/14 13:00	07/31/14 18:04	4080001
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-60-5	07/31/14 13:00	07/31/14 18:04	4080001
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	07/31/14 13:00	07/31/14 18:04	4080001
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	10061-01-5	07/31/14 13:00	07/31/14 18:04	4080001

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

Client ID: 0803-GW21
Lab No: AXG0700-13
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 07/24/14 12:29
Date/Time Received: 07/25/14 09:45

Report No.: AXG0700

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-02-6	07/31/14 13:00	07/31/14 18:04	4080001
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	07/31/14 13:00	07/31/14 18:04	4080001
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.5	74-88-4	07/31/14 13:00	07/31/14 18:04	4080001
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	591-78-6	07/31/14 13:00	07/31/14 18:04	4080001
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-09-2	07/31/14 13:00	07/31/14 18:04	4080001
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	07/31/14 13:00	07/31/14 18:04	4080001
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.4	108-10-1	07/31/14 13:00	07/31/14 18:04	4080001
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-42-5	07/31/14 13:00	07/31/14 18:04	4080001
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	07/31/14 13:00	07/31/14 18:04	4080001
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	79-34-5	07/31/14 13:00	07/31/14 18:04	4080001
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	07/31/14 13:00	07/31/14 18:04	4080001
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	07/31/14 13:00	07/31/14 18:04	4080001
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-55-6	07/31/14 13:00	07/31/14 18:04	4080001
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	07/31/14 13:00	07/31/14 18:04	4080001
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	07/31/14 13:00	07/31/14 18:04	4080001
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-69-4	07/31/14 13:00	07/31/14 18:04	4080001
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	07/31/14 13:00	07/31/14 18:04	4080001
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-05-4	07/31/14 13:00	07/31/14 18:04	4080001
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-01-4	07/31/14 13:00	07/31/14 18:04	4080001
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	1330-20-7	07/31/14 13:00	07/31/14 18:04	4080001
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	96 %		80-120				1868-53-7	07/31/14 13:00	07/31/14 18:04	4080001

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Attention: Mr. Matt Einsmann

August 21, 2014

Client ID: 0803-GW21
Lab No: AXG0700-13
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 07/24/14 12:29
Date/Time Received: 07/25/14 09:45

Report No.: AXG0700

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	111 %		78-120				17060-07-0	07/31/14 13:00	07/31/14 18:04	4080001
Surr: Toluene-d8	EPA 8260B	EPA 5030B	97 %		80-120				2037-26-5	07/31/14 13:00	07/31/14 18:04	4080001
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	107 %		80-120				460-00-4	07/31/14 13:00	07/31/14 18:04	4080001

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Attention: Mr. Matt Einsmann

August 21, 2014

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4070638 - EPA 3005A										
Blank (4070638-BLK1)							Prepared & Analyzed: 07/30/14			
Antimony	ND	6.00	ug/L							
Arsenic	ND	10.0	ug/L							
Barium	ND	100	ug/L							
Beryllium	ND	1.00	ug/L							
Cadmium	ND	1.00	ug/L							
Chromium	ND	10.0	ug/L							
Cobalt	ND	10.0	ug/L							
Copper	ND	10.0	ug/L							
Lead	ND	10.0	ug/L							
Nickel	ND	50.0	ug/L							
Selenium	ND	10.0	ug/L							
Silver	ND	10.0	ug/L							
Thallium	ND	5.50	ug/L							
Vanadium	1.41	25.0	ug/L							J
Zinc	0.66	10.0	ug/L							J
LCS (4070638-BS1)							Prepared & Analyzed: 07/30/14			
Antimony	104	6.00	ug/L	100.00		104	80-120			
Arsenic	103	10.0	ug/L	100.00		103	80-120			
Barium	101	100	ug/L	100.00		101	80-120			
Beryllium	105	1.00	ug/L	100.00		105	80-120			
Cadmium	100	1.00	ug/L	100.00		100	80-120			
Chromium	99.8	10.0	ug/L	100.00		100	80-120			
Cobalt	99.7	10.0	ug/L	100.00		100	80-120			
Copper	101	10.0	ug/L	100.00		101	80-120			
Lead	102	10.0	ug/L	100.00		102	80-120			
Nickel	99.8	50.0	ug/L	100.00		100	80-120			

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Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4070638 - EPA 3005A										
LCS (4070638-BS1)							Prepared & Analyzed: 07/30/14			
Selenium	100	10.0	ug/L	100.00		100	80-120			
Silver	104	10.0	ug/L	100.00		104	80-120			
Thallium	101	5.50	ug/L	100.00		101	80-120			
Vanadium	102	25.0	ug/L	100.00		102	80-120			
Zinc	100	10.0	ug/L	100.00		100	80-120			
Matrix Spike (4070638-MS1)	**Source: AXG0700-02**						Prepared & Analyzed: 07/30/14			
Antimony	100	6.00	ug/L	100.00	ND	100	75-125			
Arsenic	97.6	10.0	ug/L	100.00	ND	98	75-125			
Barium	139	100	ug/L	100.00	42.7	97	75-125			
Beryllium	99.7	1.00	ug/L	100.00	1.68	98	75-125			
Cadmium	97.2	1.00	ug/L	100.00	ND	97	75-125			
Chromium	95.9	10.0	ug/L	100.00	1.32	95	75-125			
Cobalt	119	10.0	ug/L	100.00	23.0	96	75-125			
Copper	97.4	10.0	ug/L	100.00	3.05	94	75-125			
Lead	98.5	10.0	ug/L	100.00	1.62	97	75-125			
Nickel	103	50.0	ug/L	100.00	8.60	94	75-125			
Selenium	97.3	10.0	ug/L	100.00	1.20	96	75-125			
Silver	101	10.0	ug/L	100.00	0.23	101	75-125			
Thallium	97.8	5.50	ug/L	100.00	ND	98	75-125			
Vanadium	98.0	25.0	ug/L	100.00	ND	98	75-125			
Zinc	97.1	10.0	ug/L	100.00	4.34	93	75-125			
Matrix Spike Dup (4070638-MSD1)	**Source: AXG0700-02**						Prepared & Analyzed: 07/30/14			
Antimony	101	6.00	ug/L	100.00	ND	101	75-125	0.4	20	
Arsenic	96.6	10.0	ug/L	100.00	ND	97	75-125	1	20	
Barium	142	100	ug/L	100.00	42.7	100	75-125	2	20	

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August 21, 2014

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4070638 - EPA 3005A										
Matrix Spike Dup (4070638-MSD1)		**Source: AXG0700-02**					Prepared & Analyzed: 07/30/14			
Beryllium	97.8	1.00	ug/L	100.00	1.68	96	75-125	2	20	
Cadmium	96.2	1.00	ug/L	100.00	ND	96	75-125	1	20	
Chromium	95.1	10.0	ug/L	100.00	1.32	94	75-125	0.8	20	
Cobalt	117	10.0	ug/L	100.00	23.0	94	75-125	1	20	
Copper	96.2	10.0	ug/L	100.00	3.05	93	75-125	1	20	
Lead	101	10.0	ug/L	100.00	1.62	99	75-125	2	20	
Nickel	102	50.0	ug/L	100.00	8.60	93	75-125	0.5	20	
Selenium	95.0	10.0	ug/L	100.00	1.20	94	75-125	2	20	
Silver	99.5	10.0	ug/L	100.00	0.23	99	75-125	1	20	
Thallium	97.2	5.50	ug/L	100.00	ND	97	75-125	0.6	20	
Vanadium	97.4	25.0	ug/L	100.00	ND	97	75-125	0.6	20	
Zinc	95.3	10.0	ug/L	100.00	4.34	91	75-125	2	20	
Post Spike (4070638-PS1)		**Source: AXG0700-02**					Prepared & Analyzed: 07/30/14			
Antimony	95.5		ug/L	100.00	0.16	95	80-120			
Arsenic	96.6		ug/L	100.00	-0.96	98	80-120			
Barium	141		ug/L	100.00	42.7	99	80-120			
Beryllium	103		ug/L	100.00	1.68	101	80-120			
Cadmium	99.1		ug/L	100.00	0.03	99	80-120			
Chromium	97.0		ug/L	100.00	1.32	96	80-120			
Cobalt	120		ug/L	100.00	23.0	97	80-120			
Copper	97.1		ug/L	100.00	3.05	94	80-120			
Lead	99.0		ug/L	100.00	1.62	97	80-120			
Nickel	104		ug/L	100.00	8.60	96	80-120			
Selenium	99.2		ug/L	100.00	1.20	98	80-120			
Silver	102		ug/L	100.00	0.23	102	80-120			
Thallium	98.7		ug/L	100.00	0.06	99	80-120			

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Attention: Mr. Matt Einsmann

August 21, 2014

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4070638 - EPA 3005A										
Post Spike (4070638-PS1)		**Source: AXG0700-02**					Prepared & Analyzed: 07/30/14			
Vanadium	99.2		ug/L	100.00	0.01	99	80-120			
Zinc	98.2		ug/L	100.00	4.34	94	80-120			

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August 21, 2014

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4080001 - EPA 5030B										
Blank (4080001-BLK1)							Prepared & Analyzed: 07/31/14			
Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	3.0	ug/L							
Chloroethane	ND	10	ug/L							
Chloroform	ND	5.0	ug/L							
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	3.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							

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August 21, 2014

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4080001 - EPA 5030B										
Blank (4080001-BLK1)							Prepared & Analyzed: 07/31/14			
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	100	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	5.0	ug/L							
Surr: Dibromofluoromethane	*48*		*ug/L*	*50.000*		*96*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*54*		*ug/L*	*50.000*		*109*	*78-120*			
Surr: Toluene-d8	*49*		*ug/L*	*50.000*		*97*	*80-120*			
Surr: 4-Bromofluorobenzene	*54*		*ug/L*	*50.000*		*109*	*80-120*			
LCS (4080001-BS1)							Prepared & Analyzed: 07/31/14			

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August 21, 2014

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4080001 - EPA 5030B										
LCS (4080001-BS1)							Prepared & Analyzed: 07/31/14			
Benzene	50		ug/L	50.000		100	67-134			
Chlorobenzene	50		ug/L	50.000		100	69-122			
1,1-Dichloroethene	46		ug/L	50.000		92	58-142			
Toluene	47		ug/L	50.000		95	68-127			
Trichloroethene	46		ug/L	50.000		92	72-132			
Surr: Dibromofluoromethane	*47*		*ug/L*	*50.000*		*95*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*53*		*ug/L*	*50.000*		*107*	*78-120*			
Surr: Toluene-d8	*48*		*ug/L*	*50.000*		*97*	*80-120*			
Surr: 4-Bromofluorobenzene	*52*		*ug/L*	*50.000*		*104*	*80-120*			
Matrix Spike (4080001-MS1)		**Source: AXG0700-13**					Prepared & Analyzed: 07/31/14			
Benzene	33		ug/L	50.000	ND	66	67-134			QM-05
Chlorobenzene	30		ug/L	50.000	ND	60	69-122			QM-05
1,1-Dichloroethene	35		ug/L	50.000	ND	69	58-142			
Toluene	29		ug/L	50.000	ND	59	68-127			QM-05
Trichloroethene	28		ug/L	50.000	ND	56	72-132			QM-05
Surr: Dibromofluoromethane	*48*		*ug/L*	*50.000*		*96*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*56*		*ug/L*	*50.000*		*112*	*78-120*			
Surr: Toluene-d8	*48*		*ug/L*	*50.000*		*97*	*80-120*			
Surr: 4-Bromofluorobenzene	*54*		*ug/L*	*50.000*		*107*	*80-120*			
Matrix Spike Dup (4080001-MSD1)		**Source: AXG0700-13**					Prepared & Analyzed: 07/31/14			
Benzene	53		ug/L	50.000	ND	105	67-134	46	9	QM-06
Chlorobenzene	50		ug/L	50.000	ND	101	69-122	51	13	QM-06
1,1-Dichloroethene	59		ug/L	50.000	ND	117	58-142	52	9	QM-06

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 4080001 - EPA 5030B										
Matrix Spike Dup (4080001-MSD1)		**Source: AXG0700-13**					Prepared & Analyzed: 07/31/14			
Toluene	50		ug/L	50.000	ND	101	68-127	53	9	QM-06
Trichloroethene	49		ug/L	50.000	ND	99	72-132	55	11	QM-06
Surr: Dibromofluoromethane	*48*		*ug/L*	*50.000*		*95*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*56*		*ug/L*	*50.000*		*111*	*78-120*			
Surr: Toluene-d8	*49*		*ug/L*	*50.000*		*97*	*80-120*			
Surr: 4-Bromofluorobenzene	*54*		*ug/L*	*50.000*		*107*	*80-120*			

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August 21, 2014

Laboratory Certifications

Code	Description	Number	Expires
LA	Louisiana	02069	06/30/2015
NC	North Carolina	381	12/31/2014
NELAC	FL DOH (Non-Pot. Water, Solids) Eff:: 07/01/2013	E87315	06/30/2015
SC	South Carolina	98011001	08/30/2014
TX	Texas	T104704397-08-TX	03/31/2015
VA	Virginia	1340	12/14/2014

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August 21, 2014

Legend

Defination of Laboratory Terms

ND - Not Detected at levels greater than or equal to SWSL/RL
SWSL/RL - NC DENR Solid Waste Section LImit/Reporting Limit (Adjusted for DF/Prep Factor)
DF - Dilution Factor
MDL - Method Detection Limit

Qualifiers

QM-06 Due to suspected matrix interference, RPD and Percent Recovery values for the MS and/or MSD were outside control limits. Sample results for the QC batch were accepted based on acceptable LCS recoveries.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD and/or PDS due to suspected matrix interference. Sample results for the QC batch were accepted based on acceptable LCS recoveries.

J Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).

B-01 Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

232659

ASI ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY NORCROSS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

CHAIN OF CUSTODY RECORD

PAGE: 1 OF 1

CLIENT NAME: REPUBLIC SERVICES OF NC, LLC
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 1220 Commerce St, SW Conover NC 28613
REPORT TO: RAY HOFFMAN
CC: mevin@hartfinginc.com
REQUESTED COMPLETION DATE: STANDARD
PO #: Required
PROJECT NAME/STATE: EAST CAROLINA REGIONAL LANDFILL
PROJECT #:

ANALYSIS REQUESTED

DATE	TIME	MATRIX CODE* (C O M P / G R A B)	SAMPLE IDENTIFICATION	CONTAINER #s	NC APPENDIX I - METALS	NC APPENDIX I - VOAs	REMARKS/ADDITIONAL INFORMATION
7-24-14	12:31	GW	0803-GW2	4	X	X	1
"	14:08	"	0803-GW7 (MS/MSD)	12	X	X	2 Incorrect vial received MR 07/25/14
	10:04		0803-GW8	4	X	X	3
	15:27		0803-GW9	4	X	X	4
	13:49		0803-GW10	4	X	X	5
	15:44		0803-GW11R	4	X	X	6
	13:05		0803-GW13	4	X	X	7
	12:50		0803-GW15	4	X	X	8
	11:47		0803-GW16R	4	X	X	9
	12:12		0803-GW17	4	X	X	10
7-24-14	10:15	GW	0803-PW1	4	X	X	11

CONTAINER TYPE: A - P - PLASTIC; B - A - AMBER GLASS; G - CLEAR GLASS; V - VOA VIAL; S - STERILE; O - OTHER
PRESERVATION: 1 - HCl, ≤6°C; 2 - H_2SO_4, ≤6°C; 3 - HNO_3; 4 - NaOH, ≤6°C; 5 - $NaOH/ZnAc_2$, ≤6°C; 6 - $Na_2S_2O_3$, ≤6°C; 7 - ≤6°C not frozen
*MATRIX CODES: DW - DRINKING WATER; WW - WASTEWATER; GW - GROUNDWATER; SW - SURFACE WATER; ST - STORM WATER; W - WATER; S - SOIL; SL - SLUDGE; SD - SOLID; A - AIR; L - LIQUID; P - PRODUCT

SAMPLED BY AND TITLE: DAN GIRDLER, AMANDA FLEEMAN — DATE/TIME: 7-24-14 / 19:00
RECEIVED BY: — DATE/TIME:
RELINQUISHED BY: Rand Reuter/Doyle Eng. — DATE/TIME: 7-24-14 / 19:00
RELINQUISHED BY: — DATE/TIME:
RECEIVED BY/AB: — DATE/TIME: 7/25/14 0945
SAMPLE SHIPPED VIA: UPS, FED-EX, USPS, COURIER, CLIENT, OTHER
Chain Seal: Yes, No, NA; Cooler Seal: Yes, No, NA; Custody Seal: Intact, Broken, Not Present; Temperature: 2°C; Max. allow. 2°C; # of Coolers; Cooler ID:

FOR LAB USE ONLY
LAB #: AXG07700
Entered into LIMS: MR

Revised 2013-10-31

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

232662

CHAIN OF CUSTODY RECORD

ASI ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY NORCROSS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asilab.com

PAGE: 1 OF 1

CLIENT NAME: Republic Services of NC, LLC
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 1220 Commerce Street, SW Conover, NC 28613
REPORT TO: Mr. Ray Hoffman CC: Denvironet@bellsouth.net
REQUESTED COMPLETION DATE: Standard PO #:
PROJECT NAME/STATE: East Carolina Landfill - Background
PROJECT #: 08-03

CONTAINER TYPE: P V/V
PRESERVATION: 3 1/1
# of CONTAINERS

ANALYSIS REQUESTED: As Appendix I Metals; As Appendix I VOC

DATE	TIME	MATRIX CODE*	# of CONTAINERS	SAMPLE IDENTIFICATION	As Appendix I Metals	As Appendix I VOC	REMARKS/ADDITIONAL INFORMATION
7/24/14	1457	GW	4	0803-GW18	X	X	18
7/24/14	1229	GW	4	0803-GW21	X	X	19

CONTAINER TYPE: P - PLASTIC; A - AMBER GLASS; G - CLEAR GLASS; V - VOA VIAL; S - STERILE; O - OTHER

PRESERVATION: 1 - HCL ≤6°C; 2 - H_2SO_4 ≤6°C; 3 - HNO_3; 4 - NaOH ≤6°C; 5 - NaOH/ZnAc ≤6°C; 6 - $Na_2S_2O_3$ ≤6°C; 7 - ≤6°C not frozen

*MATRIX CODES: DW - DRINKING WATER; WW - WASTEWATER; GW - GROUNDWATER; SW - SURFACE WATER; ST - STORM WATER; W - WATER; S - SOIL; SL - SLUDGE; SD - SOLID; A - AIR; L - LIQUID; P - PRODUCT

SAMPLED BY AND TITLE: Dan Grimsley / Amanda Freeman — DATE/TIME: see above
RELINQUISHED BY: Amanda Freeman — DATE/TIME: 7/24/14 1900
RECEIVED BY: — DATE/TIME:
RELINQUISHED BY: — DATE/TIME:
RECEIVED BY LAB: — DATE/TIME: 7/25/14 0945
Cooler Temp/Temp Blank: 2.8 Misc.
SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER CLIENT OTHER
Custody Seal: Yes No Broken Not Present
# of Coolers
Cooler ID:

FOR LAB USE ONLY
LAB #: AX61700
Entered into LIMS: NA

Revised 2013-10-31

ANALYTICAL SERVICES, INC.

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110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

232661

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110 TECHNOLOGY PARKWAY NORCROSS, GA 30092
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CHAIN OF CUSTODY RECORD

PAGE: 1 OF 1

CLIENT NAME: Republic Services of NC, LLC
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 1220 Commerce St. NW Conover, NC 28613
REPORT TO: Mr. Ray Hoffman CC: raychoffman@republicservices.com
REQUESTED COMPLETION DATE: Standard PO #:
PROJECT NAME/STATE: East Carolina Regional Landfill
PROJECT #: 2014 08-03 BLANKS

ANALYSIS REQUESTED

DATE	TIME	MATRIX CODE*	# of CONTAINERS	SAMPLE IDENTIFICATION	Acc Approved 8 Metals	Acc Approved 8 VOC	REMARKS/ADDITIONAL INFORMATION
7/24/14	1625	W	X	0808-Field Blank 4	+	+	14
7/25/14	0700	W	X	0808-Trip Blank 5		+	15

CONTAINER TYPE: P/A
PRESERVATIVE: N/A

CONTAINER TYPE: A - AMBER GLASS, G - CLEAR GLASS, P - PLASTIC, V - VOA VIAL, S - STERILE, O - OTHER

PRESERVATION: 1 - HCl, ≤6°C; 2 - H_2SO_4, ≤6°C; 3 - HNO_3; 4 - NaOH, ≤6°C; 5 - NaOH/ZnAc, ≤6°C; 6 - $Na_2S_2O_3$, ≤6°C; 7 - ≤6°C not frozen

*MATRIX CODES: DW - DRINKING WATER, WW - WASTEWATER, GW - GROUNDWATER, SW - SURFACE WATER, ST - STORM WATER, W - WATER, S - SOIL, SL - SLUDGE, SD - SOLID, A - AIR, L - LIQUID, P - PRODUCT

SAMPLED BY AND TITLE: Brad Godwin — DATE/TIME: 7/24/14 See above
RECEIVED BY: — DATE/TIME:
RELINQUISHED BY: — DATE/TIME: 7/24/14 1900
RECEIVED BY/LAB: — DATE/TIME: 07/25/14 0945
RELINQUISHED BY: — DATE/TIME:
SAMPLE SHIPPED VIA: UPS, FED EX, USPS, COURIER, CLIENT, OTHER
pH Checked: Yes No NA
Temperature: 2° Min: Max:
Cooler Seal: Intact Broken Not Present
# of Coolers: Cooler ID:
Entered into LIMS: MR
FOR LAB USE ONLY — LAB #: AXG0700

Revised 2013-10-31

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Conover NC, 28613

Attention: Mr. Matt Einsmann

August 21, 2014

CHAIN OF CUSTODY RECORD

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PAGE: 1 OF 1

CLIENT NAME: Republic Services of NC, LLC
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 1220 Commerce Street, SW, Conover, NC 28613
ATTENTION: Mr. Ray Hoffman
CC: aeverhart@joyceengineering.com
REQUESTED COMPLETION DATE: Standard
PO #: Required
PROJECT NAME/STATE: East Carolina Regional Landfill SURFACE
PERMIT #: 08-03

ANALYSIS REQUESTED: NC Appendix I Metals (Container type: P; Preservation: 3); NC Appendix I VOC's (Container type: V; Preservation: 1/7)

DATE	TIME	Matrix Code	COMP	GRAB	Sample ID	# of Containers	NC Appendix I Metals	NC Appendix I VOC's	Lab ID Number	Remarks/Additional Information
7/21/14	0905	SW		X	0803-SW1	4	X	X	16	
~~7/21/14~~		~~SW~~		~~X~~	~~0803-SW2~~		~~X~~	~~X~~		Dry
7/21/14	0950	SW		X	0803-SW3	4	X	X	17	
		~~SW~~		~~X~~	~~0803-SW4~~		~~X~~	~~X~~		Dry

CONTAINER TYPE: P - PLASTIC; A - AMBER GLASS; G - CLEAR GLASS; V - VOA VIAL; S - STERILE; O - OTHER

PRESERVATION: 1 - HCl, 4°; 2 - H2SO4, 4°; 3 - HNO3, 4°; 4 - NaOH, 4°; 5 - NaOH/ZnAc, 4°; 6 - Na2S2O3, 4°; 7 - 4°

*MATRIX CODES: DW - DRINKING WATER; WW - WASTEWATER; GW - GROUNDWATER; SW - SURFACE WATER; ST - STORM WATER; W - WATER; S - SOIL; SL - SLUDGE; SD - SOLID; A - AIR; L - LIQUID; P - PRODUCT

SAMPLED BY AND TITLE: [signature] / Amanda Freeman — DATE/TIME: See Above
RELINQUISHED BY: [signature] — DATE/TIME: 7/21/14 1900
RECEIVED BY: — DATE/TIME:
RELINQUISHED BY: — DATE/TIME:
RECEIVED BY LAB: M Lahman — DATE/TIME: 07/25/14 0945
SAMPLE SHIPPED VIA: UPS (FED-EX) COURIER CLIENT OTHER
pH: Labeled Preserved — Ice: (Yes) or No — Temperature: 2°C — Custody Seal: (Intact) Broken Missing — COOLER #:

FOR LAB USE ONLY: LAB #: AXG0700; In-house location:; Entered into LIMS: MR

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST **Printed: 8/21/2014 10:02:17AM**

Attn: Mr. Matt Einsmann

Client: Republic Services of North Carolina, LLC
Project: East Carolina Regional Landfill
Date Received: 07/25/14 09:45
Work Order: AXG0700
Logged In By: Mohammad M. Rahman

OBSERVATIONS

#Samples: 17 **#Containers:** 74

Minimum Temp(C): 2.0 **Maximum Temp(C):** 2.0 **Custody Seal(s) Used:** Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	NO
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:

1 unpreserved voa vial for 0803-GW7 was received empty. MMR

Attachment 3

Drillers Logs and Well Boring Logs

JOYCE ENGINEERING

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3362-A

1. WELL CONTRACTOR:

Joe Smith
Well Contractor (Individual) Name

Landprobe
Well Contractor Company Name

STREET ADDRESS 6004 Ponders Court

Greenville | SC | 29615
City or Town | State | Zip Code

(864)- 288-1265
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) GW-18

WELL CONSTRUCTION PERMIT#(if applicable)

OTHER ASSOCIATED PERMIT #(if applicable)

3. WELL USE (Check Applicable Box) Monitoring ☑ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐ Irrigation ☐ Other ☐ (list use)

DATE DRILLED 3-22-09

TIME COMPLETED 5:00 AM ☐ PM ☑

4. WELL LOCATION:

CITY: Aulander COUNTY Bertie

(see Figure 1 attached)
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE 36 7' 24.84"
LONGITUDE 77 3' 37.59"

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☑ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

5. FACILITY- is the name of the business where the well is located.

FACILITY ID #(if applicable)

NAME OF FACILITY East Carolina Regional Landfill

STREET ADDRESS 1922 Republican Road

Aulander | NC | 27805
City or Town | State | Zip Code

CONTACT PERSON Charles Forth

MAILING ADDRESS as above

City or Town | State | Zip Code

(252)- 348-3322
Area code - Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 29.78 feet btoc

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑

c. **WATER LEVEL** Below Top of Casing: 14.98 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 2.87 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** _____ **METHOD OF TEST** _____

f. **DISINFECTION: Type** none **Amount** _____

g. **WATER ZONES** (depth):

From 12.3	To 24.5	From	To
From	To	From	To
From	To	From	To

7. CASING:

From	To	Ft.	Diameter	Thickness/Weight	Material
0	11.71		2.0"	Sch40	PVC

8. GROUT:

From	To	Ft.	Material	Method
0	5.0		bent. grout	Gravity
5.0	10.0		bent. chips	Gravity

9. SCREEN:

From	To	Ft.	Diameter	Slot Size	Material
11.71	26.71		2.0" in.	0.010 in.	PVC
			in.	in.	
			in.	in.	

10. SAND/GRAVEL PACK:

From	To	Ft.	Size	Material
10.0	27.5		#1	silica sand

11.DRILLING LOG

From	To	Formation Description
0	7.5	brown and gray sandy, silty CLAY
7.5	24.5	orange and gray silty SAND
24.5	27.5	dark gray sandy, silty CLAY

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 3-25-09

Joe Smith
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev.12/07

WELL CONSTRUCTION RECORD

North Carolina – Department of Environmental and Natural Resources – Division of Water Quality – Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) MIKE MCCONAHEY CERTIFICATION # 2402

WELL CONTRACTOR COMPANY NAME GEOLOGIC EXPLORATION., INC. PHONE # (704) 872-7686

STATE WELL CONSTRUCTION PERMIT# _____ (if applicable) ASSOCIATED WQ PERMIT# _____ (if applicable)

1. WELL USE (Check Applicable Box): Residential ☐ Municipal/Public ☐ Industrial ☐ Agricultural ☐
Monitoring ☒ Recovery ☐ Heat Pump Water Injection ☐ Other ☐ If Other, list Use _____

2. WELL LOCATION:
Nearest Town: AULANDER County BERTIE
1922 REPUBLICAN ROAD
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
☐ Ridge ☐ Slope ☐ Valley ☒ Flat
(check appropriate box)
Latitude/longitude of well location
_____
(degrees/minutes/seconds)
Latitude/longitude source: ☐ GPS ☐ Topographic map
(check box)

3. OWNER: REPUBLIC SERVICES OF NORTH CAROLINA
Address 1220 COMMERCE STREET
(Street or Route No.)
CONOVER NC 28613
City or Town State Zip Code
( )
Area Code – Phone Number

4. DATE DRILLED 05-17-05
5. TOTAL DEPTH: 28.0 FT
6. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒
7. STATIC WATER LEVEL Below Top of Casing: 9.0 FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 2.5 FT. Above Land Surface*
*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
9. YIELD (gpm): N/A METHOD OF TEST N/A
10. WATER ZONES (depth): N/A
11. DISINFECTION: Type N/A Amount _____

DEPTH From	DEPTH To	DRILLING LOG Formation Description
0.0	1.0	WEEDS & TOPSOIL
1.0	4.0	Tan/ Brown / Red Sandy Silty Clay
4.0	12.0	Tan / White Sandy Silty Clay
12.0	28.0	TAN / ORANGE SILTY SAND

12. CASING:

	Depth From	To	Ft	Diameter	Wall Thickness or Weight/Ft.	Material
	0.0	13.0	Ft	2 INCH	SCH 40	PVC
			Ft.			
			Ft.			

13. Grout:

	Depth From	To	Ft.	Material	Method
	1.0	8.0	Ft.	Portland Bentonite	Slurry
			Ft.		

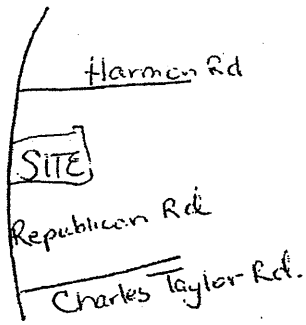
14. SCREEN:

	Depth From	To	Ft.	Diameter	Slot Size	Material
	13.0	28.0	Ft.	2 INCH in.	.010 in.	PVC
			Ft.	in.	in.	

15. SAND/GRAVEL PACK:

	Depth From	To	Ft.	Size	Material
	11.0	28.0	Ft.	20-40	FINE SILICA SAND
			Ft.		

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads, inculed the road numbers and common road names.



16. REMARKS: PZ-110 (GW-21) BENTONITE SEAL FROM 8.0 TO 11.0 FEET

I DO HEARBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

Mike McC[illegible] 6/15/06
SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center – Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days.

GW-1 REV. 07/2001

TEST BORING REPORT

BORING NO. GW-18

PROJECT: East Carolina Regional MSW Landfill - Bertie Co., NC
CLIENT: Republic Services of NC, LLC
CONTRACTOR: BLE
EQUIPMENT USED: CME-750 ATV

BLE JOB NO. J09-1001-62
PAGE NO. 1 of 2
LOCATION:
ELEVATION: 59.20
DATE START: 3/22/09
DATE FINISH: 3/22/09
DRILLER: J. Smith
PREPARED BY: M. Preddy

GROUND WATER		DEPTH TO:		
DATE	HRS AFT COMP	WATER	BOT. OF CASING	BOT. OF HOLE
	TOB	12.5		
	24	12.28		

	CASING	SAMPLER	CORE BARREL
TYPE	HSA	Split Spoon	XXX
SIZE ID/OD	8.25" OD	2" ID	XXX
HAMMER WT	XXX	140 lb	XXX
HAMMER FALL	XXX	30 "	XXX

DEPTH IN FEET	CASING BLOWS PER FT	SAMPLER BLOWS PER 6"	SAMPLE NUMBER	USCS	FIELD CLASSIFICATION AND REMARKS
					topsoil
	4	1 1 3	CL	SS-1	soft brown sli moist F. sdy si CLAY
5	11	3 4 7	CH	SS-2	stiff gray + red-br (mottled) sli moist F. sdy si CLAY
	10	2 5 5	CH	SS-3	as above
	7	4 3		SS-4	
10		4	SM		loose orange sli moist si F. SAND
	6	2 3 3	SM	SS-5	loose orange sli moist si F. SAND
15	5	1 2 3	SM	SS-6	loose lt. gray wet si F. SAND
	14	3 4 10	SM	SS-7	Firm orange wet sli cly si F-M SAND
20	7	3 3 4	SM	SS-8	Loose orange wet cly si F-M SAND

WELL: Grout; 2" PVC; Bent.; Sand; 5.0; 10.0; 11.71

BLOWS/FT	DENSITY	BLOWS/FT	CONSISTANCY	SAMPLE ID		WELL DESCRIPTION
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	STICKUP = 2.87
5-10	LOOSE	3-4	SOFT	HP	HYDROPUNCH	TOP SAND = 10.0
11-20	FIRM	5-8	FIRM	UD	UNDISTURBED TUBE	TOP BENT. = 5.0
21-30	VERY FIRM	9-15	STIFF	G	GRAB	SCREEN = 11.71 - 26.71
31-50	DENSE	16-30	VERY STIFF	C	COMPOSITE	SCREEN LENGTH = 15.0
51+	VERY DENSE	31-50	HARD	B	BAG	END CAP = 0.2
		51+	VERY HARD	NR	NO RECOVERY	WELL TD = 26.91

TEST BORING REPORT

East Carolina Regional MSW Landfill - Bertie Co., NC **J09-1001-62**

BORING NO. CW-18

PAGE 2 OF 2

DEPTH IN FEET	CASING BLOWS PER FT	SAMPLER BLOWS PER 6"	SAMPLE NUMBER	USCS	FIELD CLASSIFICATION AND REMARKS	WELL
	2	2 1 1	SM	SS-9	v. loose orange wet sli cly si F-M SAND	
		1 1 2		SS-10		
25	3		CH		soft to Firm dk gray & gray wet F. sdy si CLAY	
	8	7 4 4	CH	SS-11		26.71 26.91 27.5
				SS-12		
30						
				SS-13		
				SS-14		
35						
				SS-15		
				SS-16		
40						
				SS-17		
				SS-18		
45						

BLOWS/FT	DENSITY	BLOWS/FT	CONSISTANCY	SAMPLE ID		WELL MATERIALS
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	SAND =
5-10	LOOSE	3-4	SOFT	HP	HYDROPUNCH	
11-20	FIRM	5-8	FIRM	UD	UNDISTURBED TUBE	BENTONITE =
21-30	VERY FIRM	9-15	STIFF	G	GRAB	
31-50	DENSE	16-30	VERY STIFF	C	COMPOSITE	GROUT =
51+	VERY DENSE	31-50	HARD	B	BAG	WELL O.D. =
		51+	VERY HARD	NR	NO RECOVERY	WELL TYPE =

Project Name	East Carolina UT	Project Number	0636507.201
Project Location		Client	Republic Services
Drilling Company	Geologic Exploration	Driller Name	Mike McConaghey
Ground Elevation		Rig Type	Deidrich D-50 Turbo
oundwater elevation		Logged By	Dusty Reedy
Date Start/Finish	5-17-06/5-18-06	Total Depth	28

(GW-21)
BORING NO. PZ-110

Page 1 of 2

Elev. Ft.	Depth ft.	Sample Type & No.	Blows per 6"	Pen in.	Rec %	Remarks	Graphic Log (USCS)	Soil and Rock Descriptions
			1					Topsoil - black fine grained sandy silt to 0.5 ft.
			0			weight of hammer		Changes to gray fine grained sandy clay.
			1		100			
			4					
	2		4					Orange and gray mottled fine grained sandy clay.
			4					
			8		100			
			11					
	4		4					Same material
			5					
			8		100			
			11					
	6		10					Same material to 7.75 ft. changes to a light
			10					gray clayey silt.
			11		100			
			14					
	8		4					Light gray fine grained sandy clay with abundant
			2					sand. Changes @ 9.75 ft to medium
			3		100			grained silty sand.
			7					
	10		5					Light gray and orange medium grained
			4					silty sand, saturated.
			5		100			
			5					
	12		4					Same material to 12.75 ft. changes to an
			5		90			orange medium grained silty sand that
			8					shows some layering, wet
			7					
	14		3					Same material to 15.9 ft, changes to a
			6		90			poorly sorted pink sand, saturated.
			6					
			7					
	16		4					~~Same~~ Pink, tan, and orange poorly sorted medium
			7		80			grained sand, saturated.
			7					
			10					

Blows per 6 in. - 140lb hammer falling 30 in. to drive a 2.0 in. OD split spoon sampler.
P - Penetration Length of Sampler or Core Barrel
R - Recovery Length of Sample
RQD - Length of Sound Cores >4in./Length Cored %
S - Split Spoon Sample
U - Undisturbed Samples

Notes: (Rig Type, drilling method, bit or auger size, PSI, Equipment Failures, possible contamination, deviations from drilling plan, drilling difficulties, ect.)

6" ID HSA

Golder Associates

Project Name	East Carolina LF	Project Number	0636507.201
Project Location		Client	Republic Services
Drilling Company	Geologic Exploration	Driller Name	Mike McConaughey
Ground Elevation		Rig Type	Deidrich D-50 Turbo
Groundwater elevation		Logged By	Dusty Roach
Date Start/Finish	5-17-06 / 5-18-06	Total Depth	28

(GW-21)
BORING NO. PZ-110

Elev. Ft.	Depth ft.	Sample Type & No.	Blows per 6"	Pen in.	Rec %	Remarks	Graphic Log (USCS)	Soil and Rock Descriptions
			6 8 8 14		100			Same material, layering present saturated
	20		3 4 5 8		80			Same material without layering
	22		8 8 10 13		90			Same material
	24		3 3 5 6		100			Same material to 25.9 ft, becomes coarse grained with tan sandy clay at 26 ft.
	26		4 5 5 12		100			Sandy clay to 26.25 ft, changes back to tan medium grained, poorly sorted sand. Changes @ 27.25 ft to fine grained light gray sandy clay. changes @ 27.75 ft to layered gray fine grained silty sand.
	28		4 6 5 5		100			Medium grained poorly sorted, sandy clay layers from 29 to 29.25 ft and 29.75 to 29.90 ft.
	30		3 2 2 2		100			poorly grained poorly sorted sand, orange. changes to a blue gray fat clay @ 31.75
	32							Boring terminated @ 28 ft. Last spoon to 32
	34							

Blows per 6 in. - 140lb hammer falling 30 in. to drive a 2.0 in. OD split spoon sampler.
Pen - Penetration Length of Sampler or Core Barrel
Rec - Recovery Length of Sample
RQD - Lenght of Sound Cores >4in./Length Cored %
S - Split Spoon Sample
U - Undisturbed Samples

Notes: (Rig Type, drilling method, bit or auger size, PSI, Equipment Failures, possible contamination, deviations from drilling plan, drilling difficulties, ect.)

6" ID HSA

31
10
21

Golder Associates

KEY TO SOIL CLASSIFICATIONS AND CONSISTENCY DESCRIPTIONS

BUNNELL-LAMMONS ENGINEERING, INC.
GREENVILLE, SOUTH CAROLINA

Penetration Resistance* Blows per Foot	Relative Density
SANDS	
0 to 4	Very Loose
5 to 10	Loose
11 to 20	Firm
21 to 30	Very Firm
31 to 50	Dense
over 50	Very Dense

Penetration Resistance* Blows per Foot	Consistency
SILTS and CLAYS	
0 to 2	Very Soft
3 to 4	Soft
5 to 8	Firm
9 to 15	Stiff
16 to 30	Very Stiff
31 to 50	Hard
over 50	Very Hard

*ASTM D 1586

Particle Size Identification

Boulder: Greater than 300 mm
Cobble: 75 to 300 mm
Gravel:
Coarse - 19 to 75 mm
Fine - 4.75 to 19 mm
Sand:
Coarse - 2 to 4.75 mm
Medium - 0.425 to 2 mm
Fine - 0.075 to 0.425 mm
Silt & Clay: Less than 0.075 mm

KEY TO DRILLING SYMBOLS

Grab Sample

Split Spoon Sample

Undisturbed Sample

NR = No reaction to HCL

NA = Not applicable

NS = No sample

Groundwater Table at Time of Drilling

Groundwater Table 24 Hours after Completion of Drilling

KEY TO SOIL CLASSIFICATIONS

Well-graded Gravel
GW

Low Plasticity Clay
CL

Clayey Silt
MH

Silty Sand
SM

Poorly-graded Gravel
GP

Sandy Clay
CLS

Sandy Silt
MLS

Topsoil
TOPSOIL

Partially Weathered Rock
BLDRCBBL

Silty Clay
CL-ML

Sand
SW

Trash
MUCKPEAT

High Plasticity Clay
CH

Silt
ML

Clayey Sand
SC

Fill
FILL

Poorly Graded Sand
SP

Bedrock
BEDROCK

Limestone
LIMESTONE

BLE INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

GROUNDWATER MONITORING WELL NO. GW-18

PROJECT: East Carolina Regional MSW Landfill — PROJECT NO.: J09-1001-62

CLIENT: Republic Services of NC, LLC — START: 3-22-09 END: 3-22-09

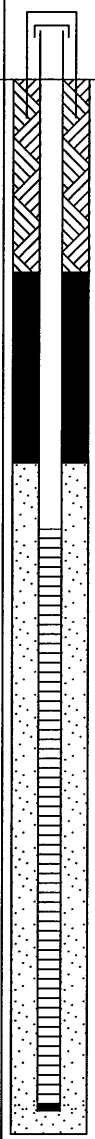
LOCATION: Bertie County, North Carolina — ELEVATION: 59.20

DRILLER: Landprobe, J. Smith — LOGGED BY: M. Preddy

DRILLING METHOD: CME 750 ATV; 8.25-inch OD hollow stem auger

DEPTH TO - WATER> INITIAL: 12.5 AFTER 24 HOURS: 12.28 CAVING>

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	SAMPLES	STANDARD PENETRATION RESULTS BLOWS/FOOT (2 5 10 20 30 40 50 70 90)
	6-inches of TOPSOIL			
2	Soft, brown, slightly moist, fine sandy, silty CLAY		1 1 3	
55 4	Stiff, gray and reddish-brown (mottled), slightly moist, fine sandy, silty CLAY		3 4 7	
6			2 5 5	
8				
50 10			4 3 4	
	Loose, orange, slightly moist, silty, fine SAND			
12			2 3 3	
45 14	Loose, light gray, wet, silty, fine SAND		1 2 3	
16	Firm, orange, wet, slightly clayey, silty, fine to medium SAND		3 4 10	
18	Loose, orange, wet, clayey, silty, fine to medium SAND		3 3 4	
40 20	Very loose, orange, wet, slightly clayey, silty, fine to medium SAND			
22			2 1 1	
35 24			1 1 2	
	Soft to firm, dark gray and gray, wet, fine sandy, silty CLAY			
26			7 4 4	
28	Boring terminated at 27.5 feet. Groundwater encountered at 12.5 feet at time of drilling and at 12.28 feet after 24 hours.			
30 30				
32				
25 34				
36				
38				
20				



MONITOR WELL INSTALLATION DETAILS

Neat cement, 0 to 5.0 feet

Bentonite seal, 5.0 to 10.0 feet

Filter pack, sand 10.0 to 27.5 feet

2-inch diameter, 0.010-inch slotted Schedule 40 PVC well screen, 11.71 to 26.71 feet

Pipe cap

Total well depth, 26.91 feet

SURFACE COMPLETION

4" x 4" stand-up locking steel cover with a 3' x 3' concrete pad at the base with survey pin

1/4-inch weep and vent holes installed in steel cover and well casing, respectively

PVC stick-up = 2.87 feet

Top of PVC casing elev. = 62.07 feet

Ground surface elev. = 59.20 feet

Survey pin elev. = 59.53 feet

Northing = 13,763.57'

Easting = 7,977.41'

RECORD OF BOREHOLE PZ-110/0803-GW-21

SHEET 1 of 1

PROJECT: East Carolina Environmental
PROJECT NUMBER: 063-6507.201
DRILLED DEPTH: 32.0 ft
LOCATION: Aulander, NC

DRILL RIG: Deidrich D-50 Turbo
DATE STARTED: 5/17/06
DATE COMPLETED: 5/18/06

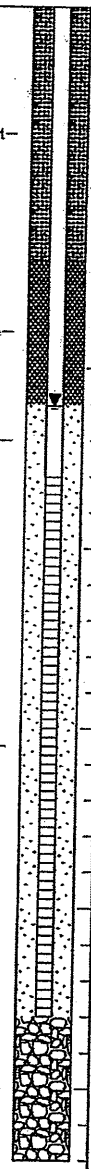
NORTHING: 867,828.0
EASTING: 2,572,575.0
GS ELEVATION: 61.0 ft
TOC ELEVATION: 63.0 ft

DEPTH W.L.: 11.0 ft
ELEVATION W.L.: 51.9 ft
DATE W.L.: 5/19/06
TIME W.L.: 7:42 am

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)
0	60	0.0 - 0.5 SILTY SAND - black fine grained silty sand	SM		60.5
		0.5 - 7.8 LEAN CLAY - gray fine grained sandy clay. Orange and gray mottled fine grained sandy clay at 2 ft, moist	CL		0.5
5	55				53.3
		7.8 - 8.0 CLAYEY SILT - light gray clayey silt	ML		8.0
		8.0 - 9.8 LEAN CLAY - light gray fine grained sandy clay with abundant sand	CL		51.3
10	50	9.8 - 15.9 SILTY SAND - medium grained silty sand. Light gray and orange medium grained silty sand at 10 ft, saturated. Orange medium grained silty sand with some layering at 12.75 ft, wet	SM		9.8
15	45	15.9 - 25.9 WELL GRADED SAND - pink, tan, and orange poorly sorted medium grained sand, saturated. Layering at 18 ft. No layering visible at 20 ft	SW		45.1 / 15.9
20	40				
25	35	25.9 - 26.3 LEAN CLAY - tan sandy clay with coarse grained sand	CL		35.1
			SW		26.3
		26.3 - 27.3 WELL GRADED SAND - tan poorly sorted medium grained sand	CL		33.8 / 33.3
		27.3 - 27.8 LEAN CLAY - light gray fine grained sandy clay	SM		27.8
30	30	27.8 - 30.0 SILTY SAND - gray fine grained silty sand with layering. Augers terminated at 28 ft. Medium grained sandy clay layers from 29 to 29.25 ft and 29.75 to 29.9 ft	SW		31.0 / 30.0
		30.0 - 31.8 WELL GRADED SAND - orange poorly sorted sand	CH		29.3
35	25	31.8 - 32.0 FAT CLAY - blue gray fat clay. Boring completed at 32.0 ft			
40					

SAMPLES NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC
	SPT	1-0-1-4	1	100.0 / 2.0
	SPT	4-4-8-11	12	100.0 / 2.0
	SPT	4-5-8-11	13	100.0 / 2.0
	SPT	10-10-11-14	21	100.0 / 2.0
	SPT	4-2-3-7	5	100.0 / 2.0
	SPT	5-4-5-5	9	100.0 / 2.0
	SPT	4-5-8-7	13	90.0 / 2.0
	SPT	3-6-6-7	12	90.0 / 2.0
	SPT	4-7-7-10	14	80.0 / 2.0
	SPT	6-8-8-14	16	100.0 / 2.0
	SPT	3-4-5-8	9	80.0 / 2.0
	SPT	8-8-10-13	18	90.0 / 2.0
	SPT	3-3-5-6	8	100.0 / 2.0
	SPT	4-5-5-12	10	100.0 / 2.0
	SPT	4-6-5-5	11	100.0 / 2.0
	SPT	3-2-2-2	4	100.0 / 2.0

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: -1.96-13 ft
Material: PVC
Diameter: 2-inch
Joint Type: Threaded

WELL SCREEN
Interval: 13-28 ft
Material: PVC
Diameter: 2-inch
Slot Size: .010-inch
End Cap: Threaded

FILTER PACK
Interval: 11-28 ft
Type: #2 Sand

FILTER PACK SEAL
Interval: 7-11 ft
Type: 3/8 Bentonite chip

ANNULUS SEAL
Interval: 0-7 ft
Type: Portland/Bentonite mix

WELL COMPLETION
Pad: 3x3x0.5 ft concrete
Protective Casing: 4-inch Aluminum

DRILLING METHODS
Type: 4.25-inch ID Hollow Stem Augers

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Geologic Exploration
DRILLER: Mike McConahey

GA INSPECTOR: David Reedy, P.G.
CHECKED BY: Rachel P. Kirkman, P.G.
DATE: 11/10/06

Golder Associates

Attachment 4

EMRF

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Joyce Engineering on behalf of Republic Services of NC, LLC

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

Name: G. Van Ness Burbach, Ph.D., P.G. Phone: (336)-323-0092

E-mail: vburbach@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
East Carolina Regional Landfill	1922 Republican Road Aulander, NC 27805	08-03	.1600	May 30, 2014 June 24, 2014 July 24, 2014

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

G. VanNess Burbach, Ph.D., PG — Technical Consultant — (336)-323-0092

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Signature — Date: 9/24/14

Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1349 GEOLOGIST G. VAN NESS BURBACH

2211 W. Meadowview Rd. Ste. 101, Greensboro, NC 27407

Facility Representative Address

C-0782

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

Revised 6/2009