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):

Resolve Environmental Services, PLLC

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

Name: Laura Minor Phone: 704-289-5881

E-mail: resolve@carolina.rr.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2008)
Warren County Landfill	S.R. 1600/559 Baltimore Road Warrenton, NC	93-01	.1600	2/16/2011

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. (Monitoring report dated 3-9-11)
☐ 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.

Marshall Brothers	Public Works Director	252-257-1948
Facility Representative Name (Print)	Title	(Area Code) Telephone Number

(X) Marshall Brothers — 3-15-11
Signature — Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1457 GEOLOGIST TERRY D. KENNEDY

559 Baltimore Road, Warrenton, NC 27589
Facility Representative Address

NC Geological Co. C-418 (Resolve Environmental Services, PLLC): Terry Kennedy

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

Revised 6/2009

Resolve Environmental Services, PLLC
410 East Franklin Street
Monroe, NC 28112
(704) 289-5881 phone
(704) 292-2910 fax
www.resolvepllc.com

March 9, 2011

RECEIVED
MAR 17 2011
SOLID WASTE SECTION

Mr. Marshall Brothers
Warren County Solid Waste Department
559 Baltimore Road
Warrenton, North Carolina 27589

Re: First Semi-Annual 2011 Ground Water Monitoring Event
Warren County Closed Sanitary Landfill
Warrenton, North Carolina
Resolve Project No 765.14

Dear Mr. Brothers:

Resolve Environmental Services, PLLC (Resolve) respectfully presents results of the first semi-annual 2011 ground water monitoring event conducted at the Warren County Closed Sanitary Landfill (CSL) located in Warrenton, North Carolina (**Figure 1**). The ground water monitoring activities were conducted in general accordance with North Carolina Department of Environment and Natural Resources (NCDENR), Division of Solid Waste Management guidelines.

Gauging and Sampling

On February 16, 2011, Resolve personnel collected ground water samples from on-site monitoring wells MW-1A, MW-2, MW-3, and MW-4. Additionally, three surface water samples, designated as SW-1, SW-2 and SW-3, were collected from a tributary of the Possumquarter Creek that bounds the landfill to the north. A ground water sample was also collected from the nearby water supply well (WSW-1) located on the adjacent residential property to the northwest (539 Baltimore Avenue). Sampling locations are provided on **Figure 2**.

Prior to collecting ground water samples from the monitoring wells, water levels were measured in each well from the top of the well casing. Based on the depth to water gauging data, Resolve personnel calculated the volume of standing water in each monitoring well. Prior to sampling, each well was purged of at least three well volumes or until bailed dry using a new, disposable Teflon™ bailer. As generated, the purge water was discharged to the ground surface at the respective wellheads. For quality control purposes, one equipment blank was collected prior to the initiation of ground water sampling activities by passing distilled water provided by the laboratory through a clean, Teflon™ bailer. The surface water samples were collected using grab sample techniques. All collected samples were placed directly into laboratory supplied glassware and placed on ice for transport to a North Carolina certified laboratory for analyses. Prior to sample collection in each monitoring well, field parameters including

temperature, pH, and specific conductance were measured using calibrated field instrumentation. Well gauging data and measured field parameters are summarized in **Table 1**.

The collected ground and surface water samples and equipment blank were analyzed for the presence of Appendix I volatile organic compounds (VOCs) including tetrahydrofuran by EPA Method 8260B and Appendix I metals by EPA Methods 6010 and 7470A, as required by the NCDENR. The samples were analyzed by Empirical Laboratories, LLC (Empirical Labs) of Nashville, Tennessee. Empirical Labs is a North Carolina certified laboratory. Please note that a trip blank was ordered with the laboratory sample kit and was reportedly in the cooler shipped by Resolve personnel to the laboratory on February 16, 2011. However, according to laboratory personnel, the trip blank was not accounted for in the cooler upon arrival at the laboratory. Therefore, there is no laboratory data for the trip blank during the February 2011 sampling event.

Results

Based upon the laboratory analytical report, detectable concentrations of Appendix I VOCs and/or metals were reported in each of the collected samples as summarized below.

MW-1A:

Concentrations of benzene, acetone, 1,4-dichlorobenzene, cis-1,2-dichloroethene, xylenes, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, vanadium and zinc were detected in the ground water sample collected from MW-1A. **The concentrations of chromium and lead exceeded the North Carolina ground water quality standards (NCGWQS)** established in T15A NCAC 2L.0202. The concentrations of benzene, acetone, 1,4-dichlorobenzene, cis-1,2-dichloroethene, xylenes, barium, cadmium, copper, mercury, nickel and zinc were below the NCGWQS. **Currently, there are no NCGWQS for beryllium, cobalt and vanadium, therefore the concentrations are reportable.**

MW-2:

Detectable concentrations of benzene, acetone, chlorobenzene, chloroethane, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, barium, cobalt and zinc were reported in the ground water sample collected from MW-2. **Only the concentration of benzene exceeded the NCGWQS.** The concentrations of acetone, chlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, barium and zinc were below the NCGWQS. **Currently, there are no NCGWQS for chloroethane and cobalt, therefore the concentrations are reportable.**

MW-3:

Detectable concentrations of benzene, acetone, chlorobenzene, chloroethane, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, tetrachloroethene, tetrahydrofuran, arsenic, barium and chromium were reported in the ground water sample collected from MW-3. **None of the reported concentrations exceeded the established NCGWQS. There are no NCGWQS for chloroethane or tetrahydrofuran, therefore the concentrations are reportable.**

MW-4:

Detectable concentrations of benzene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, barium, cadmium, chromium, copper, nickel, vanadium and zinc were reported in the ground water sample from MW-4. **None of the reported concentrations exceeded the NCGWQS. Currently, there is no NCGWQS for vanadium, therefore the concentration is reportable.**

SW-1:

Detectable concentrations of barium, chromium, cobalt, copper, lead nickel, vanadium and zinc were reported in the surface water sample SW-1. **Neither of the concentrations exceeded the NCGWQS.**

SW-2:
Detectable concentrations of acetone, cis-1,2-dichloroethene, tetrahydrofuran and barium were reported in surface water sample SW-2. **None of the reported concentrations exceeded the established NCGWQS. There is no NCGWQS for tetrahydrofuran but the concentration is reportable.**

SW-3:
Detectable concentrations of acetone and barium were reported in the surface water sample SW-3. **None of the concentrations exceeded the NCGWQS.**

WSW-1:
Detectable concentrations of methylene chloride, tetrahydrofuran, barium, zinc and mercury were reported in the ground water sample collected from WSW-1. **None of the concentrations exceed the NCGWQS. There is no NCGWQS for tetrahydrofuran but the concentration is reportable.**

Equipment Blank:
A concentration of acetone was reported in the sample collected from the equipment blank and is assumed to be a laboratory contaminant.

The current laboratory analytical results are summarized in **Table 2**. Historical laboratory data is summarized in **Table 3**. A water quality map based upon results of the August 12, 2010 sampling event presented as **Figure 3**. A copy of the laboratory analytical report is attached as **Appendix A**.

Based upon the current sampling data, a ground water quality violation (benzene, chromium and lead) continues to exist at the site. The detectable concentrations of benzene and chromium are just slightly higher than the NCGWQS and remain consistent with historical levels. Continued monitoring is recommended.

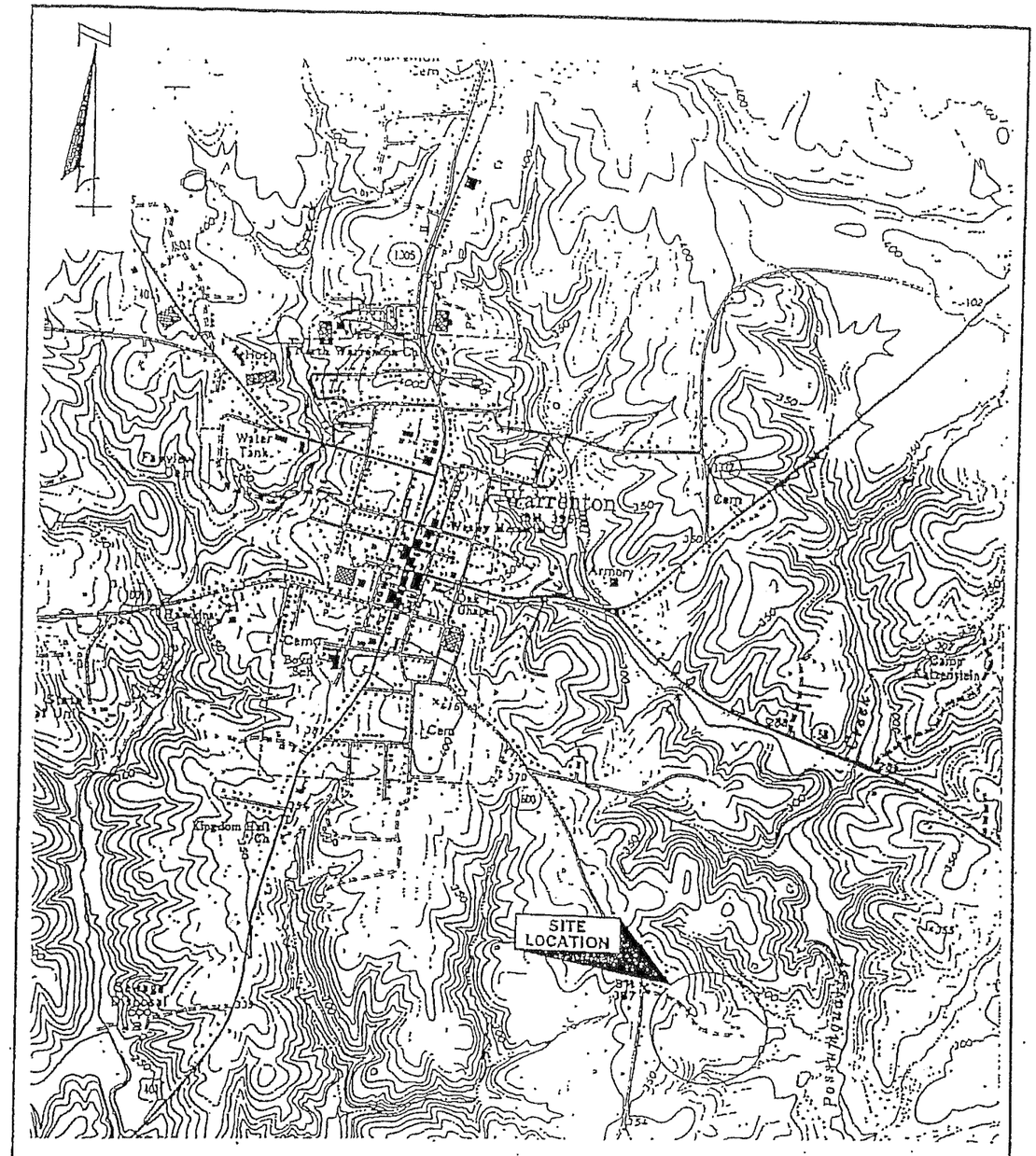
The next semi-annual sampling event will be conducted in August 2011. Please call if you have any questions or require any additional information at (704) 289-5881.

Sincerely,
Resolve Environmental Services, PLLC

Laura Minor
Project Manager

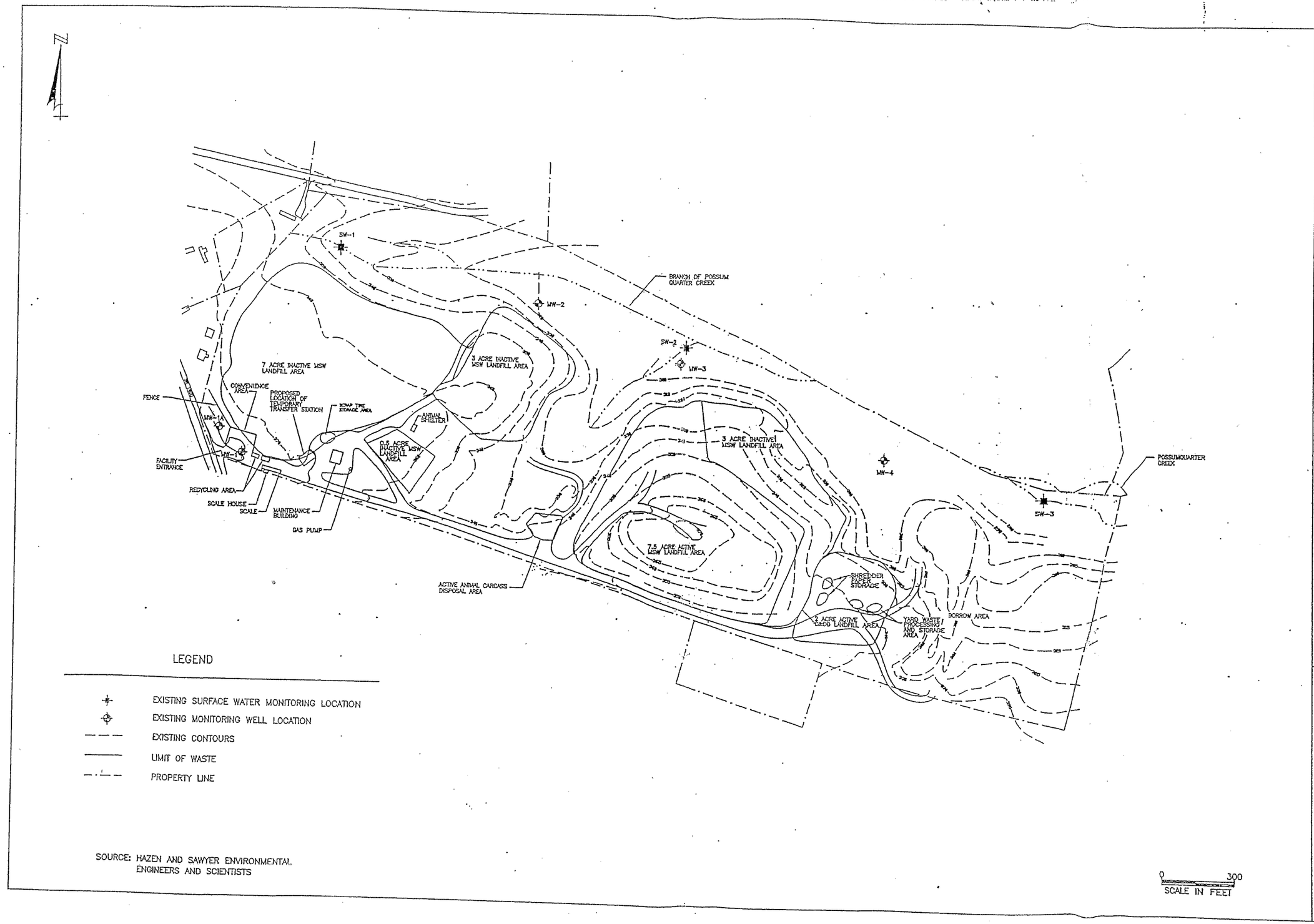
Terry D. Kennedy, P.G.
License No. 1435

FIGURES



(02/03/06)
76510LOC.DWG

WARREN COUNTY LANDFILL WARRENTON, NORTH CAROLINA	FIGURE 1. SITE LOCATION MAP	RESOLVE ENVIRONMENTAL SERVICES, P.A. MONROE, NORTH CAROLINA



RESOLVE ENVIRONMENTAL SERVICES, P.A.
MONROE, NORTH CAROLINA

FIGURE 2.
SAMPLING LOCATION MAP

WARREN COUNTY LANDFILL
WARRENTON, NORTH CAROLINA

TABLES

TABLE 1
MONITORING WELL GAUGING AND FIELD PARAMETER DATA
WARREN COUNTY CLOSED SANITARY LANDFILL

Date: 03/01/11

Sample Location	Total Well Depth (feet)	Depth to Water (feet)	Temperature (in C)	pH	Specific Conductance (µmhos)	Volume Purged (gals)
MW-1A	41.93	34.00	19	5.1	0.11	2.75
MW-2	15.75	7.90	13	4.6	0.32	2.50
MW-3	28.83	5.55	12	4.1	0.22	5.50
MW-4	23.07	3.70	14	4.0	0.2	6.00

Notes:
- Gauging and field parameters collected on February 16, 2011 by Resolve personnel.
- All measurements relative to the top of well casing.

Date : 03/9/2011

Analytical Method →													
Contaminant of Concern →													
Well ID	Date Collected (mm/dd/yy)	Benzene	Xylenes										
NCGWQS (υg/L)		1	500	6,0	1,000	15	100	NS	2,100	1			
MW-1A	02/16/11	0.839 J	0.243 J	1.9	81.9	**57.1**	23.3	**108**	185	0.383			
MW-2	02/16/11	**1.25**	<0.220	1.9	<4.00	<1.50	<3.00	<5.00	24.8	<0.0800			
MW-3	02/16/11	0.369 J	<0.220	3.0	<4.00	<1.50	<3.00	<5.00	<5.00	<0.0800			
MW-4	02/16/11	0.250 J	<0.220	<0.	8.25 J	<1.50	9.85 J	**6.44 J**	10.4 J	<0.0800			
SW-1	02/16/11	<0.140	<0.220	<1	5.69 J	3.79	8.04 J	**14.5**	20.6	<0.0800			
SW-2	02/16/11	<0.140	<0.220	5.	<4.00	<1.50	<3.00	<5.00	<5.00	<0.0800			
SW-3	02/16/11	<0.140	<0.220	6.4	<4.00	<1.50	<3.00	<5.00	<5.00	<0.0800			
WSW-1	02/16/11	<0.140	<0.220	<1	<4.00	<1.50	<3.00	<5.00	14.2	0.242			
Equipment Blank	02/16/11	<0.140	<0.220	23	<4.00	<1.50	<3.00	<5.00	<5.00	<0.0800			

Notes:

- Results reported in µg/L (micrograms per Liter)
- NCGWQS: North Carolina Ground Water Quality Standar
- < : Less than the method detection limit specified in the lat
- NS: Not specified.
- Concentrations in bold face type exceeded the 2L standard
- J: Estimated concentration.

TABLE 3
HISTORICAL SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES
WARREN COUNTY CLOSED SANITARY LANDFILL

Date : 03/09/2011

Analytical Method →		**Appendix I - 8260**							**Appendix I - 6010/200.7**		**7470**
Contaminant of Concern →											
Well ID	**Date Collected (mm/dd/yy)**	**Benzene**	**Chlorobenzene**	**Chloroethane**	**1,4-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Tetrahydrofuran**	**Chromium**	**Lead**	**Mercury**
NCGWQS (ug/L)		**1**	**50**	**NS**	**6**	**6**	**70**	**NS**	**10**	**15**	**1**
MW-1A	8/10/2006	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	15	NR
	2/22/2007	**1.4**	<1.0	<1.0	<1.0	<1.0	2.5	NR	**33**	**61**	NR
	8/27/2007	**1.3**	<1.0	<1.0	1.4	<1.0	2.6	<10.0	<5.0	<5.0	<0.20
	2/27/2008	**1.7**	<1.0	<1.0	1.9	<1.0	3.0	<10.0	<5.0	<5.0	<0.20
	8/26/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	**15.2**	**25.5**	<0.20
	2/25/2009	**1.2**	<1.0	<1.0	2.2	<1.0	2.5	<10.0	8.1	14.8	**0.21**
	8/19/2009	**1.52**	<1.00	<1.00	1.91	<1.00	2.27	<20.0	<5.00	<5.00	<0.200
	2/8/2010	**1.41**	<0.210	<0.270	2.22	<0.240	2.77	NR	3.72	4.66	0.101
	8/12/2010	**1.29**	<0.210	<0.270	2.23	<0.240	2.56	<1.00	5.10	10.5	<0.0800
	2/16/2011	0.839 J	<0.210	<0.270	1.45	<0.240	1.62	<1.00	31.3	57.1	0.383
MW-2	8/10/2006	**1.5**	<1.0	**9.2**	4.3	<1.0	10	NR	<10	<10	NR
	2/22/2007	**1.3**	1.1	**7.8**	3.8	<1.0	8.1	NR	<5.0	<5.0	NR
	8/27/2007	**1.1**	1.6	**6.9**	2.9	<1.0	8.2	<10.0	<5.0	<5.0	<0.20
	2/27/2008	**1.6**	1.9	**7.3**	4.7	<1.0	9.9	<10.0	<5.0	<5.0	<0.20
	8/26/2008	<1.0	<1.0	**4.6**	2.8	<1.0	5.5	**19.1**	<5.0	<5.0	<0.20
	2/25/2009	**1.5**	1.7	**9.7**	5.4	<1.0	10.2	<10.0	<5.0	<5.0	<0.20
	8/19/2009	**1.21**	1.48	**7.50**	3.15	<1.00	6.27	<20.0	<5.00	<5.00	<0.200
	2/8/2010	0.837	1.07	**5.62**	2.70	0.372	5.76	NR	<2.00	<3.00	<0.0800
	8/12/2010	**1.49**	2.01	**8.34**	4.22	0.797	9.49	<1.00	<2.00	1.92	<0.0800
	2/16/2011	**1.25**	2.00	**6.22**	3.72	0.670 J	7.14	<1.00	<2.00	<1.50	<0.0800

TABLE 3
HISTORICAL SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES
WARREN COUNTY CLOSED SANITARY LANDFILL

Date : 03/09/2011

Analytical Method →		**Appendix I - 8260**							**Appendix I - 6010/200.7**		**7470**
Contaminant of Concern →											
Well ID	**Date Collected (mm/dd/yy)**	**Benzene**	**Chlorobenzene**	**Chloroethane**	**1,4-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Tetrahydrofuran**	**Chromium**	**Lead**	**Mercury**
NCGWQS (ug/L)		**1**	**50**	**NS**	**6**	**6**	**70**	**NS**	**10**	**15**	**1**
MW-3	8/10/2006	<1.0	<1.0	<1.0	<1.0	2.4	2.8	NR	<10	<10	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	2.6	3.9	NR	<5.0	<5.0	NR
	8/27/2007	<1.0	<1.0	**2.3**	<1.0	2.3	4.4	**17.2**	<5.0	<5.0	0.23
	2/27/2008	<1.0	<1.0	**1.20**	1.10	2.4	5.5	**27.0**	<5.0	<5.0	<0.20
	8/26/2008	<1.0	<1.0	<1.0	<1.0	1.7	2.6	**19.1**	<5.0	<5.0	<0.20
	2/25/2009	<1.0	<1.0	<1.0	<1.0	1.9	3.8	**20.9**	<5.0	<5.0	<0.20
	8/19/2009	<1.00	<1.00	**1.29**	<1.00	1.67	3.46	**26.3**	<5.00	<5.00	<0.200
	2/8/2010	0.514	0.817	**1.05**	0.996	1.61	3.96	NR	3.12	<1.50	<0.0800
	8/12/2010	0.413	0.544	<0.270	0.853	1.65	3.08	**15.2**	2.83	2.08	<0.0800
	2/16/2011	0.369 J	0.642 J	0.764 J	0.800 J	1.30	2.87	**15.6**	2.26 J	<1.50	<0.0800
MW-4	8/10/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	<10	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<5.0	NR
	8/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	13.0	<5.0	<0.20
	2/27/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	**22.5**	<5.0	<0.20
	8/26/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	**63.3**	**15.6**	<0.20
	2/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	7.9	<5.0	<0.20
	8/19/2009	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<20.0	**12.2**	<5.00	<0.200
	2/8/2010	0.250	<0.210	<0.270	<0.250	0.401	0.599	NR	**14.4**	<1.50	<0.0800
	8/12/2010	0.295	<0.210	<0.270	<0.250	<0.240	0.715	<1.00	**10.4**	3.27	<0.0800
	2/16/2011	0.250 J	<0.210	<0.270	<0.250	0.346 J	0.607 J	<1.00	**6.65 J**	<1.50	<0.0800

TABLE 3
HISTORICAL SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES
WARREN COUNTY CLOSED SANITARY LANDFILL

Date : 03/09/2011

Analytical Method →		**Appendix I - 8260**							**Appendix I - 6010/200.7**		**7470**
Contaminant of Concern →											
Well ID	**Date Collected (mm/dd/yy)**	**Benzene**	**Chlorobenzene**	**Chloroethane**	**1,4-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Tetrahydrofuran**	**Chromium**	**Lead**	**Mercury**
NCGWQS (υg/L)		**1**	**50**	**NS**	**6**	**6**	**70**	**NS**	**10**	**15**	**1**
SW-1	8/10/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	**94**	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	NR	<5.0	<5.0	NR
	8/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	2/27/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/26/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	**248**	**106**	<0.20
	2/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/19/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/8/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	NR	<2.00	<1.50	<0.0800
	8/12/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	<1.00	<2.00	<1.50	<0.0800
	2/16/2011	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	<1.00	6.91 J	3.79	<0.0800
SW-2	8/10/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	<10	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<5.0	NR
	8/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	2/27/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/26/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/19/2009	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<20.0	**49.4**	**79.4**	0.314
	2/8/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	NR	3.04	1.87	<0.0800
	8/12/2010	0.143	0.240	<0.270	0.393	<0.240	1.14	**7.77**	<2.00	1.67	<0.0800
	2/16/2011	<0.140	<0.210	<0.270	<0.250	<0.240	0.646 J	**3.06**	<2.00	<1.50	<0.0800

TABLE 3
HISTORICAL SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES
WARREN COUNTY CLOSED SANITARY LANDFILL

Date : 03/09/2011

Analytical Method →		**Appendix I - 8260**							**Appendix I - 6010/200.7**		**7470**
Contaminant of Concern →											
Well ID	**Date Collected (mm/dd/yy)**	**Benzene**	**Chlorobenzene**	**Chloroethane**	**1,4-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Tetrahydrofuran**	**Chromium**	**Lead**	**Mercury**
NCGWQS (υg/L)		**1**	**50**	**NS**	**6**	**6**	**70**	**NS**	**10**	**15**	**1**
SW-3	8/10/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	<10	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<5.0	NR
	8/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	2/27/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/26/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	2/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/19/2009	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<20.0	<5.00	<5.00	<0.200
	2/8/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	NR	<2.00	<1.50	<0.0800
	8/12/2010	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	2/16/2011	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	<1.00	<2.00	<1.50	<0.0800
WSW-1/WS/WSW	8/10/2006	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<5.0	NR
	8/27/2007	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/27/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	8/26/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/25/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	8/19/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/8/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	NR	<2.00	4.29	0.272
	2/25/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	NR	<2.00	<1.50	0.338
	8/12/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	<1.00	<2.00	2.19	0.225
	2/16/2011	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	0.186	<2.00	<1.50	0.242

TABLE 3
HISTORICAL SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES
WARREN COUNTY CLOSED SANITARY LANDFILL

Date : 03/09/2011

Analytical Method →		**Appendix I - 8260**							**Appendix I - 6010/200.7**		**7470**
Contaminant of Concern →											
Well ID	**Date Collected (mm/dd/yy)**	**Benzene**	**Chlorobenzene**	**Chloroethane**	**1,4-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Tetrahydrofuran**	**Chromium**	**Lead**	**Mercury**
NCGWQS (υg/L)		**1**	**50**	**NS**	**6**	**6**	**70**	**NS**	**10**	**15**	**1**

Notes:
- Results reported in µg/L (micrograms per Liter) .
- NCGWQS: North Carolina Ground Water Quality Standard as specified in T15A NCAC 2L. 0202.
- < : Less than the method detection limit specified in the laboratory report.
- NR: Analysis not requested or sample was not collected.
- NS: Not specified.
- Concentrations in bold face type exceeded the 2L standard.
- Concentrations of tetrachloroethene (0.254 µg/L and 0.357 µg/L, respectively) in MW-3 and WSW-1 on 2/8/2010; a concentration of tetrachloroethene (0.189 J ug/L) was reported in MW-3 on February 16, 2011.
- J: Estimated concentration.

APPENDIX A
Laboratory Analytical Report

Empirical Laboratories, LLC

621 Mainstream Drive, Suite 270
Nashville, TN 37228
615.345.1115 Phone
866.417.0548 Fax

28 February 2011

Laura Minor
Resolve Environmental Services, PLLC
410 E Franklin St.
Monroe, NC 28112
RE: RES-Warren County Landfill

Enclosed are the results of analyses for samples received by the laboratory on 02/17/2011 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Richard
Project Manager

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EQUIPENT BLANK	1102185-01	Water	02/16/2011 10:00	02/17/2011 10:00
WSW-1	1102185-02	Water	02/16/2011 10:25	02/17/2011 10:00
MW-4	1102185-03	Water	02/16/2011 10:55	02/17/2011 10:00
MW-3	1102185-04	Water	02/16/2011 11:30	02/17/2011 10:00
MW-2	1102185-05	Water	02/16/2011 12:08	02/17/2011 10:00
MW-1A	1102185-06	Water	02/16/2011 12:50	02/17/2011 10:00
SW-1	1102185-07	Water	02/16/2011 12:20	02/17/2011 10:00
SW-2	1102185-08	Water	02/16/2011 11:40	02/17/2011 10:00
SW-3	1102185-09	Water	02/16/2011 11:10	02/17/2011 10:00

The samples were received and processed using normal regulatory and laboratory protocols. Unless noted in the Final Report, there were no significant data anomalies or failures noted during data assessment and reporting. The results within this report relate only to the samples received and reported for this project and this report shall not be reproduced except in full, without the approval of Empirical Laboratories, LLC.

The test results meet all requirements of NELAC unless otherwise noted. Data uncertainty is linked to the method and regulatory mandated quality control data associated with the sample.

VOC
LCS-Recoveies for 7 out of 48 targets in sample 1B23004-BS1 were outside the acceptable ranges. Recoveries for 8 out of 48 targets in sample 1B23004-BSD1 were outside the acceptable ranges. See included QC for details.
Note: There were no containers received for the trip blank.

Metals 7470 Mercury
MS-1B22005-MS1 - Hg recovered biased high in the MS.

CERTIFICATION INFORMATION

Prior to accepting a Project, Empirical Laboratories, LLC verifies certification requirements and where applicable ensures that the requirements are in place prior to sample analysis. In many cases, states do not carry matrix or program specific certifications. Please contact your Project Manager should specific certification information not be listed in this report. The following is a listing of all applicable certifications for the reported project.

State of North Carolina, Department of Environment and Natural Resources, Certificate No.:643
NELAC Certification #TN473

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

EQUIPENT BLANK

1102185-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Empirical Laboratories, LLC										
Metals in Water by ICP-AES										
Antimony	ND	5.00	15.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Barium	ND	5.00	40.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Beryllium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Cadmium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Chromium	ND	2.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Cobalt	ND	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Copper	ND	4.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Lead	ND	1.50	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Nickel	ND	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Selenium	ND	3.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Vanadium	ND	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Zinc	ND	5.00	20.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	1B22005	02/22/11	02/23/11	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	**23.5**	1.80	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	
Acetonitrile	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Benzene	ND	0.140	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromochloromethane	ND	0.310	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chlorobenzene	ND	0.210	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroethane	ND	0.270	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

EQUIPENT BLANK

1102185-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Empirical Laboratories, LLC										
Volatile Organic Compounds by GC/MS										
1,4-Dichlorobenzene	ND	0.250	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethane	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,2-Dichloroethene	ND	0.450	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Methylene chloride	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichloroethene	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Surrogate: Bromofluorobenzene		*103 %*	*75-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Dibromofluoromethane		*108 %*	*85-115*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Toluene-d8		*97.6 %*	*85-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

WSW-1

1102185-02 (Water)

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals in Water by ICP-AES										
Antimony	ND	5.00	15.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Barium	**20.6**	5.00	40.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Beryllium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Cadmium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Chromium	ND	2.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Cobalt	ND	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Copper	ND	4.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Lead	ND	1.50	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Nickel	ND	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Selenium	ND	3.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Vanadium	ND	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Zinc	**14.2**	5.00	20.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Mercury by CVAA										
Mercury	**0.242**	0.0800	0.200	ug/L	1	1B22005	02/22/11	02/23/11	SW7470A	
Volatile Organic Compounds by GC/MS										
Acetone	ND	1.80	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Acetonitrile	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Benzene	ND	0.140	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromochloromethane	ND	0.310	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chlorobenzene	ND	0.210	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroethane	ND	0.270	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

WSW-1

1102185-02 (Water)

Empirical Laboratories, LLC

Volatile Organic Compounds by GC/MS

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	0.250	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethane	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,2-Dichloroethene	ND	0.450	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Methylene chloride	**3.47**	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrachloroethene	**0.186**	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
Toluene	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichloroethene	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Surrogate: Bromofluorobenzene		*104 %*	*75-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Dibromofluoromethane		*114 %*	*85-115*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Toluene-d8		*96.5 %*	*85-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

MW-4

1102185-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Empirical Laboratories, LLC										
Metals in Water by ICP-AES										
Antimony	ND	5.00	15.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Barium	**106**	5.00	40.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Beryllium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Cadmium	**1.27**	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Chromium	**6.65**	2.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Cobalt	ND	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Copper	**8.25**	4.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Lead	ND	1.50	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Nickel	**9.85**	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Selenium	ND	3.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Vanadium	**6.44**	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Zinc	**10.4**	5.00	20.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	1B22005	02/22/11	02/23/11	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	ND	1.80	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Acetonitrile	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Benzene	**0.250**	0.140	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
Bromochloromethane	ND	0.310	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chlorobenzene	ND	0.210	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroethane	ND	0.270	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

MW-4

1102185-03 (Water)

Empirical Laboratories, LLC

Volatile Organic Compounds by GC/MS

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	0.250	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethane	**0.346**	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,2-Dichloroethene	**0.607**	0.450	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Methylene chloride	**1.71**	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichloroethene	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Surrogate: Bromofluorobenzene		*103 %*		*75-120*		*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Dibromofluoromethane		*111 %*		*85-115*		*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*70-120*		*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Toluene-d8		*94.8 %*		*85-120*		*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

MW-3

1102185-04 (Water)

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals in Water by ICP-AES										
Antimony	ND	5.00	15.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Arsenic	**6.40**	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Barium	**64.2**	5.00	40.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Beryllium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Cadmium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Chromium	**2.26**	2.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Cobalt	ND	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Copper	ND	4.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Lead	ND	1.50	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Nickel	ND	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Selenium	ND	3.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Vanadium	ND	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Zinc	ND	5.00	20.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	1B22005	02/22/11	02/23/11	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	**3.08**	1.80	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
Acetonitrile	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Benzene	**0.369**	0.140	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
Bromochloromethane	ND	0.310	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chlorobenzene	**0.642**	0.210	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
Chloroethane	**0.764**	0.270	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
Chloroform	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

MW-3

1102185-04 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Empirical Laboratories, LLC										
Volatile Organic Compounds by GC/MS										
1,4-Dichlorobenzene	**0.800**	0.250	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
1,1-Dichloroethane	**1.30**	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,2-Dichloroethene	**2.87**	0.450	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Methylene chloride	**4.15**	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrachloroethene	**0.189**	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
Toluene	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrahydrofuran	**15.6**	1.00	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	
Trichloroethene	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Surrogate: Bromofluorobenzene		*103 %*	*75-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Dibromofluoromethane		*111 %*	*85-115*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*70-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Toluene-d8		*95.0 %*	*85-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

MW-2

1102185-05 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Empirical Laboratories, LLC										
Metals in Water by ICP-AES										
Antimony	ND	5.00	15.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Barium	**138**	5.00	40.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Beryllium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Cadmium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Chromium	ND	2.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Cobalt	**60.0**	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Copper	ND	4.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Lead	ND	1.50	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Nickel	ND	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Selenium	ND	3.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Vanadium	ND	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Zinc	**24.8**	5.00	20.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	1B22005	02/22/11	02/23/11	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	**1.90**	1.80	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
Acetonitrile	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Benzene	**1.25**	0.140	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	
Bromochloromethane	ND	0.310	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chlorobenzene	**2.00**	0.210	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	
Chloroethane	**6.22**	0.270	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	
Chloroform	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

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1102185-05 (Water)

Empirical Laboratories, LLC

Volatile Organic Compounds by GC/MS

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	**3.72**	0.250	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	
1,1-Dichloroethane	**0.670**	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,2-Dichloroethene	**7.14**	0.450	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Methylene chloride	**1.91**	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichloroethene	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Surrogate: Bromofluorobenzene		*101 %*	*75-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Dibromofluoromethane		*112 %*	*85-115*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*98.9 %*	*70-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Toluene-d8		*94.9 %*	*85-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
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Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

MW-1A

1102185-06 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Empirical Laboratories, LLC										
Metals in Water by ICP-AES										
Antimony	ND	5.00	15.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Arsenic	**3.11**	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Barium	**322**	5.00	40.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Beryllium	**10.9**	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Cadmium	**1.59**	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Chromium	**31.3**	2.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Cobalt	**17.5**	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Copper	**81.9**	4.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Lead	**57.1**	1.50	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Nickel	**23.3**	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Selenium	ND	3.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Vanadium	**108**	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Zinc	**185**	5.00	20.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Mercury by CVAA										
Mercury	**0.383**	0.0800	0.200	ug/L	1	1B22005	02/22/11	02/23/11	SW7470A	
Volatile Organic Compounds by GC/MS										
Acetone	**1.97**	1.80	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
Acetonitrile	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Benzene	**0.839**	0.140	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
Bromochloromethane	ND	0.310	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chlorobenzene	ND	0.210	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroethane	ND	0.270	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
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Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

MW-1A

1102185-06 (Water)

Empirical Laboratories, LLC

Volatile Organic Compounds by GC/MS

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	**1.45**	0.250	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	
1,1-Dichloroethane	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,2-Dichloroethene	**1.62**	0.450	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Methylene chloride	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichloroethene	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Xylenes (total)	**0.243**	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
Surrogate: Bromofluorobenzene		*104 %*	*75-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Dibromofluoromethane		*114 %*	*85-115*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*70-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Toluene-d8		*95.9 %*	*85-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

SW-1

1102185-07 (Water)

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals in Water by ICP-AES										
Antimony	ND	5.00	15.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Barium	**103**	5.00	40.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Beryllium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Cadmium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Chromium	**6.91**	2.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Cobalt	**13.1**	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Copper	**5.69**	4.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Lead	**3.79**	1.50	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Nickel	**8.04**	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	J
Selenium	ND	3.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Vanadium	**14.5**	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Zinc	**20.6**	5.00	20.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	1B22005	02/22/11	02/23/11	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	ND	1.80	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Acetonitrile	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Benzene	ND	0.140	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromochloromethane	ND	0.310	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chlorobenzene	ND	0.210	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroethane	ND	0.270	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

SW-1

1102185-07 (Water)

Empirical Laboratories, LLC

Volatile Organic Compounds by GC/MS

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	0.250	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethane	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,2-Dichloroethene	ND	0.450	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Methylene chloride	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichloroethene	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Surrogate: Bromofluorobenzene		*103 %*	*75-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Dibromofluoromethane		*113 %*	*85-115*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Toluene-d8		*95.4 %*	*85-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

SW-2

1102185-08 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Empirical Laboratories, LLC										
Metals in Water by ICP-AES										
Antimony	ND	5.00	15.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Barium	**55.2**	5.00	40.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Beryllium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Cadmium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Chromium	ND	2.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Cobalt	ND	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Copper	ND	4.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Lead	ND	1.50	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Nickel	ND	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Selenium	ND	3.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Vanadium	ND	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Zinc	ND	5.00	20.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	1B22005	02/22/11	02/23/11	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	**5.98**	1.80	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
Acetonitrile	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Benzene	ND	0.140	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromochloromethane	ND	0.310	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chlorobenzene	ND	0.210	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroethane	ND	0.270	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

SW-2

1102185-08 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Empirical Laboratories, LLC										
Volatile Organic Compounds by GC/MS										
1,4-Dichlorobenzene	ND	0.250	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethane	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,2-Dichloroethene	**0.646**	0.450	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Methylene chloride	**3.57**	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrahydrofuran	**3.06**	1.00	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	
Trichloroethene	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Surrogate: Bromofluorobenzene		*105 %*	*75-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Dibromofluoromethane		*111 %*	*85-115*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Toluene-d8		*98.1 %*	*85-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

SW-3

1102185-09 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Empirical Laboratories, LLC										
Metals in Water by ICP-AES										
Antimony	ND	5.00	15.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Barium	**57.4**	5.00	40.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	
Beryllium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Cadmium	ND	1.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Chromium	ND	2.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Cobalt	ND	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Copper	ND	4.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Lead	ND	1.50	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Nickel	ND	3.00	10.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Selenium	ND	3.00	5.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Vanadium	ND	5.00	12.5	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Zinc	ND	5.00	20.0	ug/L	1	1B22002	02/22/11	02/23/11	SW6010C	U
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	1B22005	02/22/11	02/23/11	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	**6.40**	1.80	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	J
Acetonitrile	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Benzene	ND	0.140	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromochloromethane	ND	0.310	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chlorobenzene	ND	0.210	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroethane	ND	0.270	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

SW-3

1102185-09 (Water)

Empirical Laboratories, LLC

Volatile Organic Compounds by GC/MS

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	0.250	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethane	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,2-Dichloroethene	ND	0.450	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Methylene chloride	ND	1.67	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichloroethene	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	1B23004	02/23/11	02/23/11	SW8260B	U
Surrogate: Bromofluorobenzene		*103 %*	*75-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Dibromofluoromethane		*112 %*	*85-115*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	
Surrogate: Toluene-d8		*96.4 %*	*85-120*			*1B23004*	*02/23/11*	*02/23/11*	*SW8260B*	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

Metals in Water by ICP-AES - Quality Control

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B22002											
Blank (1B22002-BLK1)				Prepared: 02/22/2011 Analyzed: 02/23/2011							
Antimony	ND	5.00	15.0	ug/L							U
Arsenic	ND	3.00	10.0	ug/L							U
Barium	ND	5.00	40.0	ug/L							U
Beryllium	ND	1.00	5.00	ug/L							U
Cadmium	ND	1.00	5.00	ug/L							U
Chromium	ND	2.00	10.0	ug/L							U
Cobalt	ND	5.00	12.5	ug/L							U
Copper	ND	4.00	10.0	ug/L							U
Lead	ND	1.50	3.00	ug/L							U
Nickel	ND	3.00	10.0	ug/L							U
Selenium	ND	3.00	5.00	ug/L							U
Silver	ND	1.00	3.00	ug/L							U
Thallium	ND	3.00	8.00	ug/L							U
Vanadium	ND	5.00	12.5	ug/L							U
Zinc	ND	5.00	20.0	ug/L							U
LCS (1B22002-BS1)				Prepared: 02/22/2011 Analyzed: 02/23/2011							
Antimony	235.1	5.00	15.0	ug/L	250.0		94.0	80-120		20	
Arsenic	250.9	3.00	10.0	ug/L	250.0		100	80-120		20	
Barium	1907	5.00	40.0	ug/L	2000		95.3	80-120		20	
Beryllium	51.92	1.00	5.00	ug/L	50.00		104	80-120		20	
Cadmium	129.4	1.00	5.00	ug/L	125.0		104	80-120		20	
Chromium	196.2	2.00	10.0	ug/L	200.0		98.1	80-120		20	
Cobalt	463.4	5.00	12.5	ug/L	500.0		92.7	80-120		20	
Copper	242.4	4.00	10.0	ug/L	250.0		97.0	80-120		20	
Lead	247.3	1.50	3.00	ug/L	250.0		98.9	80-120		20	
Nickel	497.8	3.00	10.0	ug/L	500.0		99.6	80-120		20	
Selenium	242.2	3.00	5.00	ug/L	250.0		96.9	80-120		20	
Silver	245.8	1.00	3.00	ug/L	250.0		98.3	80-120		20	
Thallium	249.4	3.00	8.00	ug/L	250.0		99.8	80-120		20	
Vanadium	502.0	5.00	12.5	ug/L	500.0		100	80-120		20	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

Metals in Water by ICP-AES - Quality Control

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B22002											
LCS (1B22002-BS1)				Prepared: 02/22/2011 Analyzed: 02/23/2011							
Zinc	478.7	5.00	20.0	ug/L	500.0		95.7	80-120		20	
Matrix Spike (1B22002-MS1)		**Source: 1102192-02**		Prepared: 02/22/2011 Analyzed: 02/23/2011							
Antimony	268.6	5.00	15.0	ug/L	250.0	ND	107	80-120		20	
Arsenic	251.6	3.00	10.0	ug/L	250.0	ND	101	80-120		20	
Barium	1924	5.00	40.0	ug/L	2000	6.457	95.9	80-120		20	
Beryllium	51.29	1.00	5.00	ug/L	50.00	ND	103	80-120		20	
Cadmium	130.8	1.00	5.00	ug/L	125.0	ND	105	80-120		20	
Chromium	190.1	2.00	10.0	ug/L	200.0	ND	95.0	80-120		20	
Cobalt	562.5	5.00	12.5	ug/L	500.0	65.06	99.5	80-120		20	
Copper	279.9	4.00	10.0	ug/L	250.0	19.79	104	80-120		20	
Lead	255.0	1.50	3.00	ug/L	250.0	ND	102	80-120		20	
Nickel	579.4	3.00	10.0	ug/L	500.0	96.52	96.6	80-120		20	
Selenium	256.3	3.00	5.00	ug/L	250.0	ND	103	80-120		20	
Silver	246.8	1.00	3.00	ug/L	250.0	ND	98.7	80-120		20	
Thallium	238.5	3.00	8.00	ug/L	250.0	ND	95.4	80-120		20	
Vanadium	483.3	5.00	12.5	ug/L	500.0	7.721	95.1	80-120		20	
Zinc	841.8	5.00	20.0	ug/L	500.0	347.1	98.9	80-120		20	
Matrix Spike Dup (1B22002-MSD1)		**Source: 1102192-02**		Prepared: 02/22/2011 Analyzed: 02/23/2011							
Antimony	270.7	5.00	15.0	ug/L	250.0	ND	108	80-120	0.805	20	
Arsenic	252.2	3.00	10.0	ug/L	250.0	ND	101	80-120	0.242	20	
Barium	1932	5.00	40.0	ug/L	2000	6.457	96.3	80-120	0.467	20	
Beryllium	52.32	1.00	5.00	ug/L	50.00	ND	105	80-120	2.00	20	
Cadmium	131.1	1.00	5.00	ug/L	125.0	ND	105	80-120	0.298	20	
Chromium	193.6	2.00	10.0	ug/L	200.0	ND	96.8	80-120	1.81	20	
Cobalt	563.0	5.00	12.5	ug/L	500.0	65.06	99.6	80-120	0.0871	20	
Copper	282.7	4.00	10.0	ug/L	250.0	19.79	105	80-120	1.00	20	
Lead	255.7	1.50	3.00	ug/L	250.0	ND	102	80-120	0.305	20	
Nickel	582.2	3.00	10.0	ug/L	500.0	96.52	97.1	80-120	0.482	20	
Selenium	254.1	3.00	5.00	ug/L	250.0	ND	102	80-120	0.874	20	
Silver	247.8	1.00	3.00	ug/L	250.0	ND	99.1	80-120	0.404	20	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
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Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

Metals in Water by ICP-AES - Quality Control

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B22002											
Matrix Spike Dup (1B22002-MSD1)		**Source: 1102192-02**		Prepared: 02/22/2011 Analyzed: 02/23/2011							
Thallium	240.4	3.00	8.00	ug/L	250.0	ND	96.2	80-120	0.802	20	
Vanadium	490.2	5.00	12.5	ug/L	500.0	7.721	96.5	80-120	1.41	20	
Zinc	842.3	5.00	20.0	ug/L	500.0	347.1	99.0	80-120	0.0629	20	

Mercury by CVAA - Quality Control

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B22005											
Blank (1B22005-BLK1)				Prepared: 02/22/2011 Analyzed: 02/23/2011							
Mercury	ND	0.0800	0.200	ug/L							U
LCS (1B22005-BS1)				Prepared: 02/22/2011 Analyzed: 02/23/2011							
Mercury	2.139	0.0800	0.200	ug/L	2.000		107	80-120			
Matrix Spike (1B22005-MS1)		**Source: 1102130-03**		Prepared: 02/22/2011 Analyzed: 02/23/2011							
Mercury	2.427	0.0800	0.200	ug/L	2.000	ND	121	80-120			N
Matrix Spike Dup (1B22005-MSD1)		**Source: 1102130-03**		Prepared: 02/22/2011 Analyzed: 02/23/2011							
Mercury	2.182	0.0800	0.200	ug/L	2.000	ND	109	80-120	10.6	20	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
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Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

Volatile Organic Compounds by GC/MS - Quality Control

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B23004											
Blank (1B23004-BLK1)				Prepared & Analyzed: 02/23/2011							
Acetone	ND	1.80	10.0	ug/L							U
Acetonitrile	ND	1.67	5.00	ug/L							U
Benzene	ND	0.140	1.00	ug/L							U
Bromochloromethane	ND	0.310	2.00	ug/L							U
Bromodichloromethane	ND	0.180	1.00	ug/L							U
Bromoform	ND	0.500	1.00	ug/L							U
Bromomethane	ND	0.320	2.00	ug/L							U
2-Butanone	ND	1.60	10.0	ug/L							U
Carbon disulfide	ND	0.260	1.00	ug/L							U
Carbon tetrachloride	ND	0.240	1.00	ug/L							U
Chlorobenzene	ND	0.210	1.00	ug/L							U
Chloroethane	ND	0.270	2.00	ug/L							U
Chloroform	ND	0.230	1.00	ug/L							U
Chloromethane	ND	0.360	2.00	ug/L							U
Dibromochloromethane	ND	0.180	1.00	ug/L							U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L							U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L							U
Dibromomethane	ND	0.280	1.00	ug/L							U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L							U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L							U
1,4-Dichlorobenzene	ND	0.250	1.00	ug/L							U
1,1-Dichloroethane	ND	0.240	1.00	ug/L							U
1,2-Dichloroethane	ND	0.220	1.00	ug/L							U
1,1-Dichloroethene	ND	0.280	1.00	ug/L							U
cis-1,2-Dichloroethene	ND	0.450	1.00	ug/L							U
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L							U
1,2-Dichloropropane	ND	0.270	1.00	ug/L							U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L							U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L							U
Ethylbenzene	ND	0.150	1.00	ug/L							U

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
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Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

Volatile Organic Compounds by GC/MS - Quality Control

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B23004											
Blank (1B23004-BLK1)				Prepared & Analyzed: 02/23/2011							
2-Hexanone	ND	0.500	5.00	ug/L							U
Iodomethane	ND	0.370	5.00	ug/L							U
Methylene chloride	ND	1.67	5.00	ug/L							U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L							U
Styrene	ND	0.240	1.00	ug/L							U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L							U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L							U
Tetrachloroethene	ND	0.170	1.00	ug/L							U
Toluene	ND	0.190	1.00	ug/L							U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L							U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L							U
Tetrahydrofuran	ND	1.00	2.00	ug/L							U
Trichloroethene	ND	0.500	1.00	ug/L							U
Trichlorofluoromethane	ND	0.250	2.00	ug/L							U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L							U
Vinyl chloride	ND	0.200	2.00	ug/L							U
Vinyl acetate	ND	1.00	5.00	ug/L							U
Xylenes (total)	ND	0.220	1.00	ug/L							U
Surrogate: Bromofluorobenzene	*30.19*			*ug/L*	*30.00*	*101*	*75-120*				
Surrogate: Dibromofluoromethane	*32.63*			*ug/L*	*30.00*	*109*	*85-115*				
Surrogate: 1,2-Dichloroethane-d4	*30.47*			*ug/L*	*30.00*	*102*	*70-120*				
Surrogate: Toluene-d8	*29.24*			*ug/L*	*30.00*	*97.5*	*85-120*				
LCS (1B23004-BS1)				Prepared & Analyzed: 02/23/2011							
Acetone	126	1.80	10.0	ug/L	100.0	126	40-140		30		
Acetonitrile	ND	1.67	5.00	ug/L			50-150		30		U
Benzene	53.4	0.140	1.00	ug/L	50.00	107	80-120		30		
Bromochloromethane	59.6	0.310	2.00	ug/L	50.00	119	65-130		30		
Bromodichloromethane	76.2	0.180	1.00	ug/L	50.00	152	75-120		30		
Bromoform	65.3	0.500	1.00	ug/L	50.00	131	70-130		30		
Bromomethane	27.2	0.320	2.00	ug/L	50.00	54.4	30-145		30		
2-Butanone	104	1.60	10.0	ug/L	100.0	104	30-150		30		

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
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Volatile Organic Compounds by GC/MS - Quality Control

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B23004											
LCS (1B23004-BS1)				Prepared & Analyzed: 02/23/2011							
Carbon disulfide	59.8	0.260	1.00	ug/L	50.00		120	35-160		30	
Carbon tetrachloride	70.5	0.240	1.00	ug/L	50.00		141	65-140		30	
Chlorobenzene	52.0	0.210	1.00	ug/L	50.00		104	80-120		30	
Chloroethane	60.3	0.270	2.00	ug/L	50.00		121	60-135		30	
Chloroform	60.3	0.230	1.00	ug/L	50.00		121	65-135		30	
Chloromethane	57.1	0.360	2.00	ug/L	50.00		114	40-125		30	
Dibromochloromethane	64.0	0.180	1.00	ug/L	50.00		128	60-135		30	
1,2-Dibromo-3-chloropropane	54.7	0.550	2.00	ug/L	50.00		109	50-130		30	
1,2-Dibromoethane (EDB)	55.8	0.240	1.00	ug/L	50.00		112	80-120		30	
Dibromomethane	63.2	0.280	1.00	ug/L	50.00		126	75-125		30	
1,2-Dichlorobenzene	53.7	0.160	1.00	ug/L	50.00		107	70-120		30	
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L				50-150		30	U
1,4-Dichlorobenzene	52.1	0.250	1.00	ug/L	50.00		104	75-125		30	
1,1-Dichloroethane	57.6	0.240	1.00	ug/L	50.00		115	70-135		30	
1,2-Dichloroethane	68.3	0.220	1.00	ug/L	50.00		137	70-130		30	
1,1-Dichloroethene	58.7	0.280	1.00	ug/L	50.00		117	70-130		30	
cis-1,2-Dichloroethene	54.3	0.450	1.00	ug/L	50.00		109	70-125		30	
trans-1,2-Dichloroethene	55.7	0.530	1.00	ug/L	50.00		111	60-140		30	
1,2-Dichloropropane	54.7	0.270	1.00	ug/L	50.00		109	75-125		30	
cis-1,3-Dichloropropene	58.3	0.150	1.00	ug/L	50.00		117	70-130		30	
trans-1,3-Dichloropropene	63.6	0.170	1.00	ug/L	50.00		127	55-140		30	
Ethylbenzene	51.4	0.150	1.00	ug/L	50.00		103	75-125		30	
2-Hexanone	102	0.500	5.00	ug/L	100.0		102	55-130		30	
Iodomethane	32.5	0.370	5.00	ug/L	50.00		65.1	50-140		30	
Methylene chloride	54.1	1.67	5.00	ug/L	50.00		108	55-140		30	
4-Methyl-2-pentanone	123	0.500	5.00	ug/L	100.0		123	60-135		30	
Styrene	53.4	0.240	1.00	ug/L	50.00		107	65-135		30	
1,1,2,2-Tetrachloroethane	49.5	0.230	1.00	ug/L	50.00		99.0	65-130		30	
1,1,1,2-Tetrachloroethane	69.4	0.190	1.00	ug/L	50.00		139	80-130		30	
Tetrachloroethene	50.8	0.170	1.00	ug/L	50.00		102	45-150		30	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

Volatile Organic Compounds by GC/MS - Quality Control

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B23004											
LCS (1B23004-BS1)				Prepared & Analyzed: 02/23/2011							
Toluene	49.0	0.190	1.00	ug/L	50.00		98.1	75-120		30	
1,1,2-Trichloroethane	50.8	0.260	1.00	ug/L	50.00		102	75-125		30	
1,1,1-Trichloroethane	67.9	0.290	1.00	ug/L	50.00		136	65-130		30	
Tetrahydrofuran	54.2	1.00	2.00	ug/L	50.00		108	70-130		30	
Trichloroethene	59.3	0.500	1.00	ug/L	50.00		119	70-125		30	
Trichlorofluoromethane	66.7	0.250	2.00	ug/L	50.00		133	60-145		30	
1,2,3-Trichloropropane	60.3	0.500	1.00	ug/L	50.00		121	75-125		30	
Vinyl chloride	61.4	0.200	2.00	ug/L	50.00		123	50-145		30	
Vinyl acetate	114	1.00	5.00	ug/L	99.95		114	60-150		30	
Xylenes (total)	148	0.220	1.00	ug/L	150.0		98.9	75-130		30	
Surrogate: Bromofluorobenzene	*31.06*			*ug/L*	*30.00*		*104*	*75-120*			
Surrogate: Dibromofluoromethane	*33.26*			*ug/L*	*30.00*		*111*	*85-115*			
Surrogate: 1,2-Dichloroethane-d4	*31.91*			*ug/L*	*30.00*		*106*	*70-120*			
Surrogate: Toluene-d8	*28.33*			*ug/L*	*30.00*		*94.4*	*85-120*			
LCS (1B23004-BS2)				Prepared & Analyzed: 02/23/2011							
Acetone	ND	1.80	10.0	ug/L				40-140		30	U
Acetonitrile	524	1.67	5.00	ug/L	500.0		105	50-150		30	
Benzene	ND	0.140	1.00	ug/L				80-120		30	U
Bromochloromethane	ND	0.310	2.00	ug/L				65-130		30	U
Bromodichloromethane	ND	0.180	1.00	ug/L				75-120		30	U
Bromoform	ND	0.500	1.00	ug/L				70-130		30	U
Bromomethane	ND	0.320	2.00	ug/L				30-145		30	U
2-Butanone	ND	1.60	10.0	ug/L	100.0			30-150		30	U
Carbon disulfide	ND	0.260	1.00	ug/L				35-160		30	U
Carbon tetrachloride	ND	0.240	1.00	ug/L				65-140		30	U
Chlorobenzene	ND	0.210	1.00	ug/L				80-120		30	U
Chloroethane	ND	0.270	2.00	ug/L				60-135		30	U
Chloroform	ND	0.230	1.00	ug/L				65-135		30	U
Chloromethane	ND	0.360	2.00	ug/L				40-125		30	U
Dibromochloromethane	ND	0.180	1.00	ug/L				60-135		30	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L				50-130		30	U

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

Volatile Organic Compounds by GC/MS - Quality Control

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B23004											
LCS (1B23004-BS2)				Prepared & Analyzed: 02/23/2011							
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L				80-120		30	U
Dibromomethane	ND	0.280	1.00	ug/L				75-125		30	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L				70-120		30	U
trans-1,4-Dichloro-2-butene	53.2	1.67	5.00	ug/L	50.00		106	50-150		30	
1,4-Dichlorobenzene	ND	0.250	1.00	ug/L				75-125		30	U
1,1-Dichloroethane	ND	0.240	1.00	ug/L				70-135		30	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L				70-130		30	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L				70-130		30	U
cis-1,2-Dichloroethene	ND	0.450	1.00	ug/L				70-125		30	U
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L				60-140		30	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L				75-125		30	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L				70-130		30	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L				55-140		30	U
Ethylbenzene	ND	0.150	1.00	ug/L				75-125		30	U
2-Hexanone	ND	0.500	5.00	ug/L				55-130		30	U
Iodomethane	ND	0.370	5.00	ug/L				50-140		30	U
Methylene chloride	ND	1.67	5.00	ug/L				55-140		30	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L				60-135		30	U
Styrene	ND	0.240	1.00	ug/L				65-135		30	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L				65-130		30	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L				80-130		30	U
Tetrachloroethene	ND	0.170	1.00	ug/L				45-150		30	U
Toluene	ND	0.190	1.00	ug/L				75-120		30	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L				75-125		30	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L				65-130		30	U
Tetrahydrofuran	ND	1.00	2.00	ug/L				70-130		30	U
Trichloroethene	ND	0.500	1.00	ug/L				70-125		30	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L				60-145		30	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L				75-125		30	U
Vinyl chloride	ND	0.200	2.00	ug/L				50-145		30	U

Volatile Organic Compounds by GC/MS - Quality Control

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B23004											
LCS (1B23004-BS2)					Prepared & Analyzed: 02/23/2011						
Vinyl acetate	ND	1.00	5.00	ug/L				60-150		30	U
Xylenes (total)	ND	0.220	1.00	ug/L				75-130		30	U
Surrogate: Bromofluorobenzene	*31.19*			*ug/L*	*30.00*		*104*	*75-120*			
Surrogate: Dibromofluoromethane	*32.16*			*ug/L*	*30.00*		*107*	*85-115*			
Surrogate: 1,2-Dichloroethane-d4	*30.33*			*ug/L*	*30.00*		*101*	*70-120*			
Surrogate: Toluene-d8	*29.06*			*ug/L*	*30.00*		*96.9*	*85-120*			
LCS Dup (1B23004-BSD1)					Prepared & Analyzed: 02/23/2011						
Acetone	132	1.80	10.0	ug/L	100.0		132	40-140	4.70	30	
Acetonitrile	ND	1.67	5.00	ug/L				50-150		30	U
Benzene	55.8	0.140	1.00	ug/L	50.00		112	80-120	4.37	30	
Bromochloromethane	63.3	0.310	2.00	ug/L	50.00		127	65-130	5.96	30	
Bromodichloromethane	81.8	0.180	1.00	ug/L	50.00		164	75-120	7.20	30	
Bromoform	63.7	0.500	1.00	ug/L	50.00		127	70-130	2.50	30	
Bromomethane	34.1	0.320	2.00	ug/L	50.00		68.1	30-145	22.4	30	
2-Butanone	104	1.60	10.0	ug/L	100.0		104	30-150	0.000959	30	
Carbon disulfide	63.1	0.260	1.00	ug/L	50.00		126	35-160	5.37	30	
Carbon tetrachloride	72.8	0.240	1.00	ug/L	50.00		146	65-140	3.25	30	
Chlorobenzene	55.2	0.210	1.00	ug/L	50.00		110	80-120	5.98	30	
Chloroethane	63.2	0.270	2.00	ug/L	50.00		126	60-135	4.65	30	
Chloroform	66.3	0.230	1.00	ug/L	50.00		133	65-135	9.44	30	
Chloromethane	63.9	0.360	2.00	ug/L	50.00		128	40-125	11.2	30	
Dibromochloromethane	63.9	0.180	1.00	ug/L	50.00		128	60-135	0.148	30	
1,2-Dibromo-3-chloropropane	54.6	0.550	2.00	ug/L	50.00		109	50-130	0.169	30	
1,2-Dibromoethane (EDB)	57.4	0.240	1.00	ug/L	50.00		115	80-120	2.71	30	
Dibromomethane	68.5	0.280	1.00	ug/L	50.00		137	75-125	7.98	30	
1,2-Dichlorobenzene	57.9	0.160	1.00	ug/L	50.00		116	70-120	7.38	30	
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L				50-150		30	U
1,4-Dichlorobenzene	53.5	0.250	1.00	ug/L	50.00		107	75-125	2.63	30	
1,1-Dichloroethane	61.3	0.240	1.00	ug/L	50.00		123	70-135	6.19	30	
1,2-Dichloroethane	75.7	0.220	1.00	ug/L	50.00		151	70-130	10.2	30	
1,1-Dichloroethene	61.5	0.280	1.00	ug/L	50.00		123	70-130	4.78	30	

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

Volatile Organic Compounds by GC/MS - Quality Control

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B23004											
LCS Dup (1B23004-BSD1)				Prepared & Analyzed: 02/23/2011							
cis-1,2-Dichloroethene	58.4	0.450	1.00	ug/L	50.00		117	70-125	7.14	30	
trans-1,2-Dichloroethene	57.9	0.530	1.00	ug/L	50.00		116	60-140	3.96	30	
1,2-Dichloropropane	57.5	0.270	1.00	ug/L	50.00		115	75-125	4.94	30	
cis-1,3-Dichloropropene	59.5	0.150	1.00	ug/L	50.00		119	70-130	1.94	30	
trans-1,3-Dichloropropene	61.4	0.170	1.00	ug/L	50.00		123	55-140	3.66	30	
Ethylbenzene	55.7	0.150	1.00	ug/L	50.00		111	75-125	7.98	30	
2-Hexanone	99.9	0.500	5.00	ug/L	100.0		99.9	55-130	2.19	30	
Iodomethane	36.4	0.370	5.00	ug/L	50.00		72.8	50-140	11.2	30	
Methylene chloride	58.2	1.67	5.00	ug/L	50.00		116	55-140	7.36	30	
4-Methyl-2-pentanone	128	0.500	5.00	ug/L	100.0		128	60-135	3.81	30	
Styrene	56.4	0.240	1.00	ug/L	50.00		113	65-135	5.34	30	
1,1,2,2-Tetrachloroethane	52.2	0.230	1.00	ug/L	50.00		104	65-130	5.28	30	
1,1,1,2-Tetrachloroethane	72.3	0.190	1.00	ug/L	50.00		145	80-130	4.04	30	
Tetrachloroethene	52.5	0.170	1.00	ug/L	50.00		105	45-150	3.26	30	
Toluene	49.8	0.190	1.00	ug/L	50.00		99.6	75-120	1.56	30	
1,1,2-Trichloroethane	52.3	0.260	1.00	ug/L	50.00		105	75-125	3.03	30	
1,1,1-Trichloroethane	72.5	0.290	1.00	ug/L	50.00		145	65-130	6.52	30	
Tetrahydrofuran	54.9	1.00	2.00	ug/L	50.00		110	70-130	1.40	30	
Trichloroethene	65.5	0.500	1.00	ug/L	50.00		131	70-125	10.0	30	
Trichlorofluoromethane	76.9	0.250	2.00	ug/L	50.00		154	60-145	14.2	30	
1,2,3-Trichloropropane	62.0	0.500	1.00	ug/L	50.00		124	75-125	2.81	30	
Vinyl chloride	64.9	0.200	2.00	ug/L	50.00		130	50-145	5.51	30	
Vinyl acetate	115	1.00	5.00	ug/L	99.95		115	60-150	0.539	30	
Xylenes (total)	158	0.220	1.00	ug/L	150.0		105	75-130	6.25	30	
Surrogate: Bromofluorobenzene	*29.66*			*ug/L*	*30.00*		*98.9*	*75-120*			
Surrogate: Dibromofluoromethane	*33.14*			*ug/L*	*30.00*		*110*	*85-115*			
Surrogate: 1,2-Dichloroethane-d4	*29.66*			*ug/L*	*30.00*		*98.9*	*70-120*			
Surrogate: Toluene-d8	*27.16*			*ug/L*	*30.00*		*90.5*	*85-120*			

Volatile Organic Compounds by GC/MS - Quality Control

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B23004											
LCS Dup (1B23004-BSD2)				Prepared & Analyzed: 02/23/2011							
Acetone	ND	1.80	10.0	ug/L				40-140		30	U
Acetonitrile	537	1.67	5.00	ug/L	500.0		107	50-150	2.32	30	
Benzene	ND	0.140	1.00	ug/L				80-120		30	U
Bromochloromethane	ND	0.310	2.00	ug/L				65-130		30	U
Bromodichloromethane	ND	0.180	1.00	ug/L				75-120		30	U
Bromoform	ND	0.500	1.00	ug/L				70-130		30	U
Bromomethane	ND	0.320	2.00	ug/L				30-145		30	U
2-Butanone	ND	1.60	10.0	ug/L	100.0			30-150		30	U
Carbon disulfide	ND	0.260	1.00	ug/L				35-160		30	U
Carbon tetrachloride	ND	0.240	1.00	ug/L				65-140		30	U
Chlorobenzene	ND	0.210	1.00	ug/L				80-120		30	U
Chloroethane	ND	0.270	2.00	ug/L				60-135		30	U
Chloroform	ND	0.230	1.00	ug/L				65-135		30	U
Chloromethane	ND	0.360	2.00	ug/L				40-125		30	U
Dibromochloromethane	ND	0.180	1.00	ug/L				60-135		30	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L				50-130		30	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L				80-120		30	U
Dibromomethane	ND	0.280	1.00	ug/L				75-125		30	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L				70-120		30	U
trans-1,4-Dichloro-2-butene	49.0	1.67	5.00	ug/L	50.00		98.0	50-150	8.29	30	
1,4-Dichlorobenzene	ND	0.250	1.00	ug/L				75-125		30	U
1,1-Dichloroethane	ND	0.240	1.00	ug/L				70-135		30	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L				70-130		30	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L				70-130		30	U
cis-1,2-Dichloroethene	ND	0.450	1.00	ug/L				70-125		30	U
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L				60-140		30	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L				75-125		30	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L				70-130		30	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L				55-140		30	U
Ethylbenzene	ND	0.150	1.00	ug/L				75-125		30	U

Resolve Environmental Services, PLLC	Project: RES-Warren County Landfill	
410 E Franklin St.	Project Number: RES-WrnCoLnd	**Reported:**
Monroe NC, 28112	Project Manager: Laura Minor	02/28/2011 16:11

Volatile Organic Compounds by GC/MS - Quality Control

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B23004											
LCS Dup (1B23004-BSD2)				Prepared & Analyzed: 02/23/2011							
2-Hexanone	ND	0.500	5.00	ug/L				55-130		30	U
Iodomethane	ND	0.370	5.00	ug/L				50-140		30	U
Methylene chloride	ND	1.67	5.00	ug/L				55-140		30	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L				60-135		30	U
Styrene	ND	0.240	1.00	ug/L				65-135		30	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L				65-130		30	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L				80-130		30	U
Tetrachloroethene	ND	0.170	1.00	ug/L				45-150		30	U
Toluene	ND	0.190	1.00	ug/L				75-120		30	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L				75-125		30	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L				65-130		30	U
Tetrahydrofuran	ND	1.00	2.00	ug/L				70-130		30	U
Trichloroethene	ND	0.500	1.00	ug/L				70-125		30	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L				60-145		30	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L				75-125		30	U
Vinyl chloride	ND	0.200	2.00	ug/L				50-145		30	U
Vinyl acetate	ND	1.00	5.00	ug/L				60-150		30	U
Xylenes (total)	ND	0.220	1.00	ug/L				75-130		30	U
Surrogate: Bromofluorobenzene	*32.23*			*ug/L*	*30.00*		*107*	*75-120*			
Surrogate: Dibromofluoromethane	*33.18*			*ug/L*	*30.00*		*111*	*85-115*			
Surrogate: 1,2-Dichloroethane-d4	*30.08*			*ug/L*	*30.00*		*100*	*70-120*			
Surrogate: Toluene-d8	*29.88*			*ug/L*	*30.00*		*99.6*	*85-120*			

Notes and Definitions

U	Analyte included in the analysis, but not detected
N	A precision or bias exceedence in the associated batch Matrix Spike
J	Detected but below the Reporting Limit/Limit of Quantitation; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

NC site

EMPIRICAL LABORATORIES, LLC - CHAIN OF CUSTODY RECORD

SHIP TO: 621 Mainstream Drive, Suite 270 ♦ Nashville, TN 37228 ♦ 615-345-1115 ♦ (fax) 615-846-5426

11983

Send Results to:
Name Laura Minor
Company Resolve
Address 410 E Franklin
City Monroe
State, Zip NC 28112
Phone 704 289 5881
Fax
E-mail resolve@carolina.rr.com

Send Invoice to:
Name
Company
Address
City
State, Zip
Phone
Fax
E-mail

Project No./Name: Warren County

Sampler's (Signature):

Analysis Requirements: 8260 App I + tetrahydrofuran; App I Metals

Lab Use Only:

VOA Headspace	Y	N	NA
Field Filtered	Y	N	NA
Correct Containers	Y	N	NA
Discrepancies	Y	N	NA
Cust. Seals Intact	Y	N	NA
Containers Intact	Y	N	NA

Airbill #: FedEx
CAR #:

Lab Use Only Lab #	Date/Time Sampled	Sample Description	Sample Matrix	8260 App I + tetrahydrofuran	App I Metals	Comments	No. of Bottles	Lab Use Only Containers/Pres.
1102185 -01	2/16/11 1000	Equipment Blank	H_2O	X	X		4	1 HNO3 + 3 JTH
-02	1025	WSW-1		X	X			
-03	1055	MW-4		X	X			
-04	1130	MW-3		X	X			
-05	1208	MW-2		X	X			
-06	1250	MW-1A		X	X			
-07	1220	SW-1		X	X			
-08	1140	SW-2		X	X			
-09	1110	SW-3		X	X			20 Bottles
-10		Trip Blank		X				

	Date/Time	Received By: (Signature)
Sample Kit Prep'd by: (Signature)		
Relinquished by: (Signature)	2/16/11 1700	Received By: (Signature)
Relinquished by: (Signature)		Received By: (Signature)
Received for Laboratory by: (Signature)	2-17-11 08:45	Temperature 09.00 0.5°

REMARKS:
* EDR requested for this project *

Details:
Page 1 of 1
Cooler No. 1 of 1
Date Shipped 2/16/11
Shipped By
Turnaround Standard

Distribution: Original and yellow copies accompany sample shipment to laboratory; Pink retained by samplers.

2-17-11

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102185 Number of Coolers: 1 of 1

Client: Resolve Project: Warren County

Date/Time Received: 2/17/11 8:45am Date cooler(s) opened: 2/17/11

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered ~~EL~~ Courier Other: _____

If applicable, enter airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: _____ Seal date: _____ Seal Initials: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A
7. Was project identifiable from custody papers? ..... Yes No N/A
8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 0.8 °C Correction Factor: -0.3 °C Final Value: 0.5 °C

Dates samples were logged-in: 2-21-11

9. Initial this form to acknowledge login of sample(s): (Name): [illegible] (Initial): [illegible]
10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A
17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

pH <2 for all metals