11687

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

DITOS RECEIVED
SEP - 3 2010
WASTE SECTION

September 1, 2010

Ms. Jacqueline Smith
539 Baltimore Road
Warrenton, NC 27589

Re: Water Supply Well Sampling Results
539 Baltimore Road, Warrenton, NC

Dear Ms. Smith:

This letter is to inform you of the recent water supply well (WSW-1) sampling results conducted on August 12, 2010. Resolve Environmental Services, PLLC (Resolve) has been contracted by the Warren County Solid Waste Department to conduct semi-annual ground water sampling activities at their facility. The water supply well connected to your residence was included in the sampling schedule.

Concentrations of barium (20.6 µg/L), copper (5.00 µg/L), zinc (14.7 µg/L), mercury (0.225 µg/L), lead (2.19 µg/L) and tetrachloroethene (0.227 µg/L) were detected in the ground water sample collected from WSW-1. **Please note that these concentrations *do not exceed* the applicable North Carolina Ground Water Quality Standards (NCGWS) presented in the North Carolina Administrative Code Title 15A Subchapter 2L .0202, if published**. A copy of the analytical laboratory results has been included as an attachment. This information has been submitted to the NCDENR Solid Waste Section and will be maintained in their files.

As part of the ongoing sampling schedule at Warren County Landfill, WSW-1 will be sampled again in February 2011. The analytical results will be forwarded to you following the receipt of the analytical report. If you have any questions, please call me at (704) 289-5881.

Sincerely,
Resolve Environmental Services, PLLC

Laura Minor

cc: Mr. Ervin Lane, NCDENR-Division of Waste Management/Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646
Mr. Marshall Brothers, Warren County Solid Waste Department, 559 Baltimore Road, Warrenton, North Carolina 27589

attachment

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SOLID WASTE SECTION RECEIVED SEP - 3 2010

September 1, 2010

Mr. Ervin Lane
Compliance Hydrogeologist
NCDENR
Division of Waste Management
Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Re: ***Second Semi-Annual 2010 Ground Water Monitoring Event***
Warren County Closed Sanitary Landfill
Warrenton, North Carolina
Resolve Project No 765.13

Dear Mr. Lane:

Please find the attached Second Semi-Annual 2010 Ground Water Monitoring Report conducted at the Warren County Closed Sanitary Landfill in August 2010. Please call if you have any questions or require any additional information at (704) 289-5881.

Sincerely,
Resolve Environmental Services, PLLC

Laura Minor
Operations Manager

Resolve Environmental Services, PLLC

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Monroe, NC 28112
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September 1, 2010

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

Re: Second Semi-Annual 2010 Ground Water Monitoring Event
Warren County Closed Sanitary Landfill
Warrenton, North Carolina
Resolve Project No 765.13

Dear Mr. Brothers:

Resolve Environmental Services, PLLC (Resolve) respectfully presents results of the second semi-annual 2010 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 August 12, 2010, Resolve personnel collected ground water samples from on-site monitoring wells MW-1A, MW-2, MW-3, and MW-4. Additionally, two surface water samples, designated as SW-1 and SW-2, were collected from a tributary of the Possumquarter Creek that bounds the landfill to the north. Please note that the creek was dry in the area that the former surface water sample SW-3 was historically collected. 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. Additionally, one trip blank was provided by the laboratory and accompanied the samples throughout the sampling event. 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 n 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 trip blank was analyzed for Appendix I VOCs including tetrahydrofuran by EPA Method 8260B. The samples were analyzed by Empirical Laboratories, LLC (Empirical Labs) of Nashville, Tennessee. Empirical Labs is a North Carolina certified laboratory.

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-1:

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

MW-3:

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

MW-4:

Detectable concentrations of benzene, acetone, cis-1,2-dichloroethene, barium, chromium, copper, lead, nickel, vanadium and zinc were reported in the ground water sample from MW-4. **Only the concentration of chromium exceeded the NCGWQS. Currently, there is no NCGWQS for vanadium, therefore the concentration is reportable.**

SW-1

Detectable concentrations of acetone and barium were reported in the surface water sample SW-1. **Neither of the concentrations exceeded the NCGWQS.**

SW-2:
Detectable concentrations of benzene, acetone, chlorobenzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, tetrahydrofuran, barium, lead and zinc 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.**

WSW-1:
Detectable concentrations of tetrachloroethene, barium, copper, lead,, mercury and zinc were reported in the ground water sample collected from WSW-1. **None of the concentrations exceed the NCGWQS.**

Blanks
Concentrations of acetone were reported in the samples collected from the trip blank and the equipment blank. In addition, a concentration of carbon disulfide was reported in the sample collected from the trip blank.

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 and chromium) 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 February 2011. Please call if you have any questions or require any additional information at (704) 289-5881.

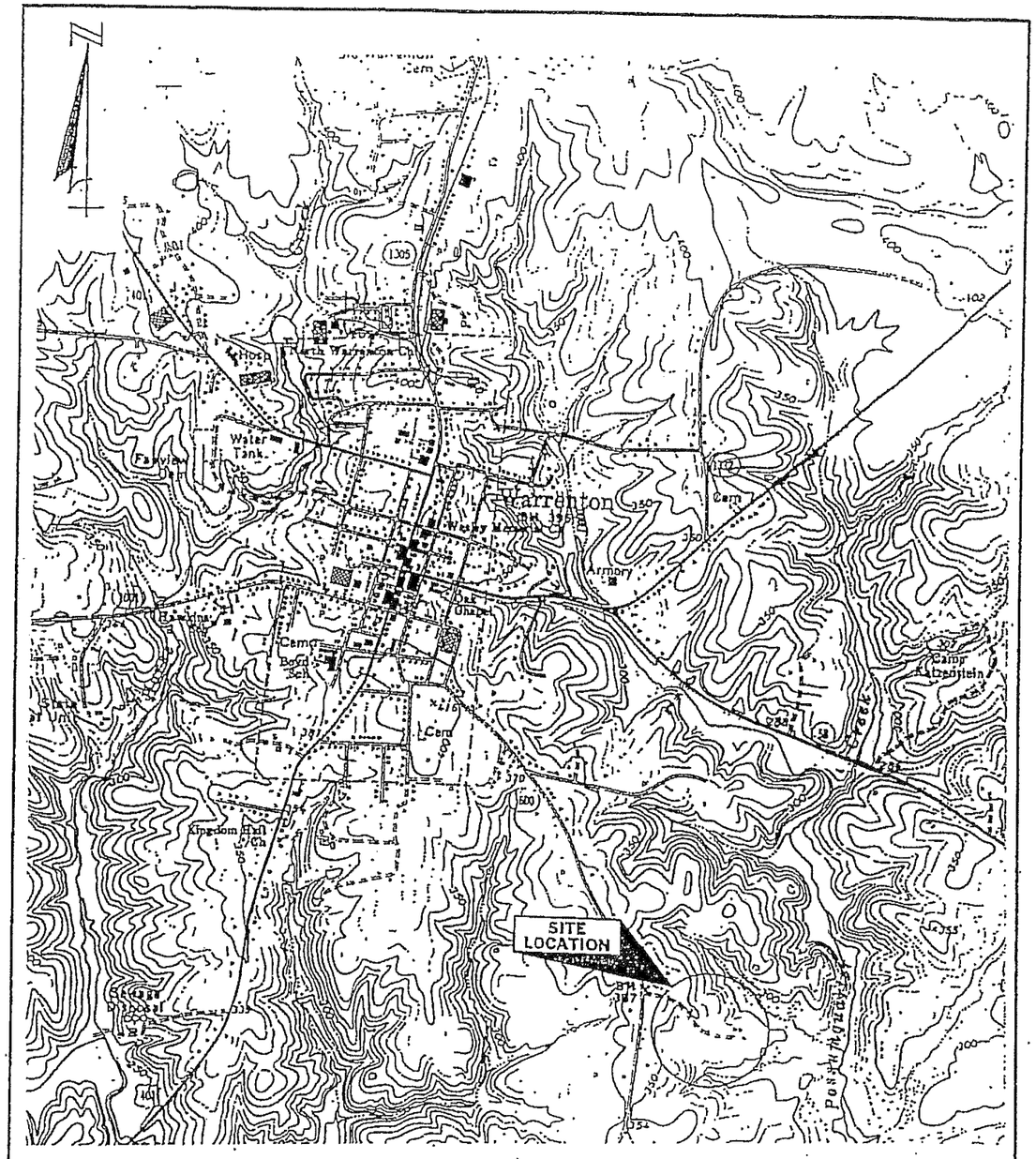
Sincerely,
Resolve Environmental Services, PLLC

Laura Minor
Project Manager

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

NORTH CAROLINA LICENSED SEAL 1435 GEOLOGIST TERRY D. KENNEDY

FIGURES



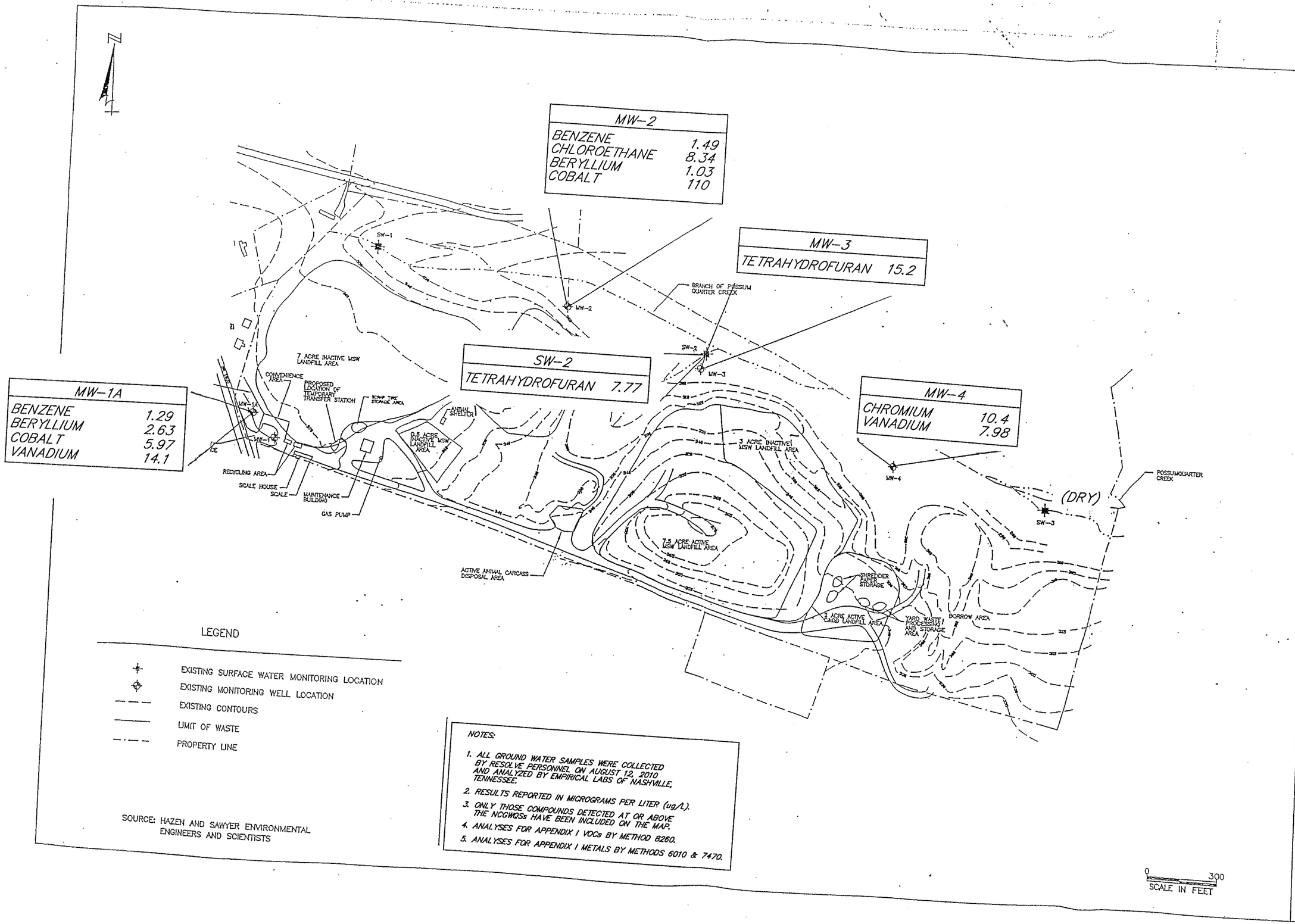
(02/03/06)
76510LOC.DWG

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



LEGEND

- EXISTING SURFACE WATER MONITORING LOCATION
- EXISTING MONITORING WELL LOCATION
- EXISTING CONTOURS
- LIMIT OF WASTE
- PROPERTY LINE

SOURCE: HAZEN AND SAWYER ENVIRONMENTAL ENGINEERS AND SCIENTISTS

NOTES:

1. ALL GROUND WATER SAMPLES WERE COLLECTED BY RESOLVE PERSONNEL ON AUGUST 12, 2010 AND ANALYZED BY EMPIRICAL LABS OF NASHVILLE, TENNESSEE.
2. RESULTS REPORTED IN MICROGRAMS PER LITER (ug/L).
3. ONLY THOSE COMPOUNDS DETECTED AT OR ABOVE THE NCGWQSs HAVE BEEN INCLUDED ON THE MAP.
4. ANALYSES FOR APPENDIX I VOCs BY METHOD 8260.
5. ANALYSES FOR APPENDIX I METALS BY METHODS 6010 & 7470.

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

FIGURE 3.
SITE LAYOUT MAP WITH ASSOCIATED ANALYTICAL RESULTS

WARREN COUNTY LANDFILL
WARRENTON, NORTH CAROLINA

TABLES

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

Date: 08/25/10

Sample Location	Total Well Depth (feet)	Depth to Water (feet)	Temperature (in C)	pH	Specific Conductance (µmhos)	Volume Purged (gals)
MW-1A	41.93	32.23	16	5.0	0.12	7.50
MW-2	15.75	9.14	15	5.6	0.45	3.00
MW-3	28.83	6.49	17	5.5	0.32	7.00
MW-4	23.07	4.80	19	6.0	0.21	4.75

Notes:
- Gauging and field parameters collected on August 12, 2010 by Resolve personnel.
- All measurements relative to the top of well casing.

Date : 08/25/10

Analytical Method →				I - 6010					7470
Contaminant of Concern →									
Well ID	**Date Collected (mm/dd/yy)**	**Benzene**	**Acetone**	**Lead**	**Nickel**	**Vanadium**	**Zinc**	**Mercury**
NCGQS (µg/L)		**1**	**6,000**	**15**	**100**	**NS**	**2,100**	**1**
MW-1A	08/12/10	**1.29**	2.42	10.5	5.75	**14.1**	32.0	<0.0800
MW-2	08/12/10	**1.49**	3.44	1.92	<3.00	<5.00	23.9	<0.0800
MW-3	08/12/10	0.413	3.51	2.08	<3.00	<5.00	<5.00	<0.0800
MW-4	08/12/10	0.295	4.37	3.27	11.0	**7.98**	14.8	<0.0800
SW-1	08/12/10	<0.140	2.68	<1.50	<3.00	<5.00	<5.00	<0.0800
SW-2	08/12/10	0.143	3.36	1.67	<3.00	<5.00	5.60	<0.0800
SW-3	08/12/10	DRY	DRY	DRY	DRY	DRY	DRY	DRY
WSW-1	08/12/10	<0.140	<1.80	2.19	<3.00	<5.00	14.7	0.225
Equipment Blank	08/12/10	<0.140	15.6	<1.50	<3.00	<5.00	<5.00	<0.0800
Trip Blank	08/12/10	<0.140	6.45	NR	NR	NR	NR	NR

Notes:

- Results reported in µg/L (micrograms per Liter)
- 2L Standard: as specified in T15A NCAC 2L.0202.
- < : Less than the method detection limit specified in
- NR: Analysis not requested.
- NS: Not specified.
- Concentrations in bold face type exceeded the 2L sta
- A concentration of acetonitrile (15.7 µg/L) was report

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

Date : 09/01/2010

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**
NCGQS (υg/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
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

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

Date : 09/01/2010

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**
NCGQS (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
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

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

Date : 09/01/2010

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**
NCGQS (µg/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
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

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

Date : 09/01/2010

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**
NCGQS (ug/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
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

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

Date : 09/01/2010

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**
NCGQS (ug/L)		**1**	**50**	**NS**	**6**	**6**	**70**	**NS**	**10**	**15**	**1**

Notes:
- Results reported in µg/L (micrograms per Liter) .
- 2L 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.

APPENDIX A
Laboratory Analytical Report

Empirical Laboratories, LLC

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

24 August 2010

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 08/13/2010 08:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Richard
Project Manager

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	Reported: 08/24/2010 13:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Equipment Blank	1008127-01	Water	08/12/2010 10:23	08/13/2010 08:30
WSW-1	1008127-02	Water	08/12/2010 10:10	08/13/2010 08:30
MW-4	1008127-03	Water	08/12/2010 10:45	08/13/2010 08:30
MW-3	1008127-04	Water	08/12/2010 11:30	08/13/2010 08:30
MW-2	1008127-05	Water	08/12/2010 12:15	08/13/2010 08:30
MW-1A	1008127-06	Water	08/12/2010 12:45	08/13/2010 08:30
SW-2	1008127-07	Water	08/12/2010 11:42	08/13/2010 08:30
SW-1	1008127-08	Water	08/12/2010 12:25	08/13/2010 08:30
Trip Blank	1008127-09	Water	08/12/2010 00:00	08/13/2010 08:30

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-Recoveries for 3 out of a combined 96 targets in samples 0H15005-BS1 and 0H15005-BSD1 were outside their acceptable ranges. See included QC for details. RPD for Bromomethane in samples 0H15005-BS1/ 0H15005-BSD1 exceeded the limit of 30% at 38.8%.

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 #TN47

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

Equipment Blank

1008127-01 (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	0H16011	08/16/10	08/18/10	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Barium	ND	5.00	40.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Beryllium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Cadmium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Chromium	ND	2.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Cobalt	ND	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Copper	ND	4.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Lead	ND	1.50	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Nickel	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Selenium	ND	3.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Vanadium	ND	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Zinc	ND	5.00	20.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	0H16002	08/16/10	08/16/10	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	**15.6**	1.80	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
Acetonitrile	**15.7**	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
Benzene	ND	0.140	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromochloromethane	ND	0.310	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chlorobenzene	ND	0.210	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroethane	ND	0.270	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

Equipment Blank

1008127-01 (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	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethane	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,2-Dichloroethene	ND	0.450	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Methylene chloride	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichloroethene	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Surrogate: Bromofluorobenzene		*95.1 %*	*75-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Dibromofluoromethane		*112 %*	*85-115*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*99.4 %*	*70-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Toluene-d8		*91.5 %*	*85-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

WSW-1

1008127-02 (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	0H16011	08/16/10	08/18/10	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Barium	**20.6**	5.00	40.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Beryllium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Cadmium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Chromium	ND	2.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Cobalt	ND	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Copper	**5.00**	4.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Lead	**2.19**	1.50	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Nickel	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Selenium	ND	3.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Vanadium	ND	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Zinc	**14.7**	5.00	20.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Mercury by CVAA										
Mercury	**0.225**	0.0800	0.200	ug/L	1	0H16002	08/16/10	08/16/10	SW7470A	
Volatile Organic Compounds by GC/MS										
Acetone	ND	1.80	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Acetonitrile	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Benzene	ND	0.140	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromochloromethane	ND	0.310	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chlorobenzene	ND	0.210	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroethane	ND	0.270	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

WSW-1

1008127-02 (Water)

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by GC/MS										
1,4-Dichlorobenzene	ND	0.250	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethane	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,2-Dichloroethene	ND	0.450	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Methylene chloride	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrachloroethene	**0.227**	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Toluene	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichloroethene	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Surrogate: Bromofluorobenzene		*99.4 %*	*75-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Dibromofluoromethane		*113 %*	*85-115*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*96.1 %*	*70-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Toluene-d8		*94.2 %*	*85-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

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1008127-03 (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	0H16011	08/16/10	08/18/10	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Barium	**109**	5.00	40.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Beryllium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Cadmium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Chromium	**10.4**	2.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Cobalt	ND	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Copper	**10.5**	4.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Lead	**3.27**	1.50	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Nickel	**11.0**	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Selenium	ND	3.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Vanadium	**7.98**	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Zinc	**14.8**	5.00	20.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	0H16002	08/16/10	08/16/10	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	**4.37**	1.80	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Acetonitrile	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Benzene	**0.295**	0.140	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Bromochloromethane	ND	0.310	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chlorobenzene	ND	0.210	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroethane	ND	0.270	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

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1008127-03 (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	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethane	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,2-Dichloroethene	**0.715**	0.450	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Methylene chloride	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichloroethene	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Surrogate: Bromofluorobenzene		*96.7 %*	*75-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Dibromofluoromethane		*115 %*	*85-115*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Toluene-d8		*95.3 %*	*85-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

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1008127-04 (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	0H16011	08/16/10	08/18/10	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Barium	**63.6**	5.00	40.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Beryllium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Cadmium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Chromium	**2.83**	2.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Cobalt	ND	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Copper	ND	4.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Lead	**2.08**	1.50	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Nickel	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Selenium	ND	3.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Vanadium	ND	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Zinc	ND	5.00	20.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	0H16002	08/16/10	08/16/10	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	**3.51**	1.80	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Acetonitrile	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Benzene	**0.413**	0.140	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Bromochloromethane	ND	0.310	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chlorobenzene	**0.544**	0.210	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Chloroethane	ND	0.270	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

MW-3

1008127-04 (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	**0.853**	0.250	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
1,1-Dichloroethane	**1.65**	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,2-Dichloroethene	**3.08**	0.450	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Methylene chloride	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrachloroethene	**0.206**	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Toluene	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrahydrofuran	**15.2**	1.00	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
Trichloroethene	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Surrogate: Bromofluorobenzene		*98.9 %*	*75-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Dibromofluoromethane		*108 %*	*85-115*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Toluene-d8		*94.1 %*	*85-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

MW-2

1008127-05 (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	0H16011	08/16/10	08/18/10	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Barium	**171**	5.00	40.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Beryllium	**1.03**	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Cadmium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Chromium	ND	2.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Cobalt	**110**	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Copper	ND	4.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Lead	**1.92**	1.50	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Nickel	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Selenium	ND	3.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Vanadium	ND	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Zinc	**23.9**	5.00	20.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	0H16002	08/16/10	08/16/10	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	**3.44**	1.80	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Acetonitrile	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Benzene	**1.49**	0.140	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
Bromochloromethane	ND	0.310	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon disulfide	**0.295**	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chlorobenzene	**2.01**	0.210	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
Chloroethane	**8.34**	0.270	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
Chloroform	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U

MW-2

1008127-05 (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	**4.22**	0.250	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
1,1-Dichloroethane	**0.797**	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,2-Dichloroethene	**9.49**	0.450	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Methylene chloride	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichloroethene	**0.549**	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Surrogate: Bromofluorobenzene		*97.9 %*	*75-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Dibromofluoromethane		*111 %*	*85-115*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*	*70-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Toluene-d8		*93.0 %*	*85-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

MW-1A

1008127-06 (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	0H16011	08/16/10	08/18/10	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Barium	**92.7**	5.00	40.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Beryllium	**2.63**	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Cadmium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Chromium	**5.10**	2.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Cobalt	**5.97**	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Copper	**11.7**	4.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Lead	**10.5**	1.50	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Nickel	**5.75**	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Selenium	ND	3.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Vanadium	**14.1**	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Zinc	**32.0**	5.00	20.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	0H16003	08/16/10	08/16/10	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	**2.42**	1.80	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Acetonitrile	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Benzene	**1.29**	0.140	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
Bromochloromethane	ND	0.310	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chlorobenzene	ND	0.210	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroethane	ND	0.270	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	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	08/24/2010 13:16

MW-1A

1008127-06 (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	**2.23**	0.250	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
1,1-Dichloroethane	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,2-Dichloroethene	**2.56**	0.450	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Methylene chloride	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichloroethene	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Surrogate: Bromofluorobenzene		*97.5 %*	*75-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Dibromofluoromethane		*109 %*	*85-115*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*	*70-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Toluene-d8		*94.0 %*	*85-120*			*0H15005*	*08/15/10*	*08/16/10*	*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	08/24/2010 13:16

SW-2

1008127-07 (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	0H16011	08/16/10	08/18/10	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Barium	**51.5**	5.00	40.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Beryllium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Cadmium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Chromium	ND	2.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Cobalt	ND	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Copper	ND	4.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Lead	**1.67**	1.50	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Nickel	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Selenium	ND	3.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Vanadium	ND	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Zinc	**5.60**	5.00	20.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	J
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	0H16003	08/16/10	08/16/10	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	**3.36**	1.80	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Acetonitrile	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Benzene	**0.143**	0.140	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Bromochloromethane	ND	0.310	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chlorobenzene	**0.240**	0.210	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Chloroethane	ND	0.270	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

SW-2

1008127-07 (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	**0.393**	0.250	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
1,1-Dichloroethane	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,2-Dichloroethene	**1.14**	0.450	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Methylene chloride	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrahydrofuran	**7.77**	1.00	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	
Trichloroethene	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Surrogate: Bromofluorobenzene		*98.4 %*	*75-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Dibromofluoromethane		*111 %*	*85-115*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Toluene-d8		*93.7 %*	*85-120*			*0H15005*	*08/15/10*	*08/16/10*	*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	08/24/2010 13:16

SW-1

1008127-08 (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	0H16011	08/16/10	08/18/10	SW6010C	U
Arsenic	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Barium	**45.0**	5.00	40.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	
Beryllium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Cadmium	ND	1.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Chromium	ND	2.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Cobalt	ND	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Copper	ND	4.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Lead	ND	1.50	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Nickel	ND	3.00	10.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Selenium	ND	3.00	5.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Silver	ND	1.00	3.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Thallium	ND	3.00	8.00	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Vanadium	ND	5.00	12.5	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Zinc	ND	5.00	20.0	ug/L	1	0H16011	08/16/10	08/18/10	SW6010C	U
Mercury by CVAA										
Mercury	ND	0.0800	0.200	ug/L	1	0H16003	08/16/10	08/16/10	SW7470A	U
Volatile Organic Compounds by GC/MS										
Acetone	**2.68**	1.80	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Acetonitrile	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Benzene	ND	0.140	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromochloromethane	ND	0.310	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon disulfide	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chlorobenzene	ND	0.210	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroethane	ND	0.270	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	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	08/24/2010 13:16

SW-1

1008127-08 (Water)

Empirical Laboratories, LLC

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by GC/MS										
1,4-Dichlorobenzene	ND	0.250	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethane	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,2-Dichloroethene	ND	0.450	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Methylene chloride	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichloroethene	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Surrogate: Bromofluorobenzene		*97.3 %*	*75-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Dibromofluoromethane		*113 %*	*85-115*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Toluene-d8		*92.0 %*	*85-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

Trip Blank

1008127-09 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Empirical Laboratories, LLC										
Volatile Organic Compounds by GC/MS										
Acetone	**6.45**	1.80	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Acetonitrile	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Benzene	ND	0.140	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromochloromethane	ND	0.310	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromodichloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromoform	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Bromomethane	ND	0.320	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Butanone	ND	1.60	10.0	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Carbon disulfide	**0.516**	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	J
Carbon tetrachloride	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chlorobenzene	ND	0.210	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroethane	ND	0.270	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloroform	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Chloromethane	ND	0.360	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromochloromethane	ND	0.180	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromo-3-chloropropane	ND	0.550	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dibromoethane (EDB)	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Dibromomethane	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichlorobenzene	ND	0.160	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,4-Dichlorobenzene	ND	0.250	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethane	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloroethane	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1-Dichloroethene	ND	0.280	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,2-Dichloroethene	ND	0.450	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,2-Dichloroethene	ND	0.530	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2-Dichloropropane	ND	0.270	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
cis-1,3-Dichloropropene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
trans-1,3-Dichloropropene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Ethylbenzene	ND	0.150	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
2-Hexanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Iodomethane	ND	0.370	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Methylene chloride	ND	1.67	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
4-Methyl-2-pentanone	ND	0.500	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Styrene	ND	0.240	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,2,2-Tetrachloroethane	ND	0.230	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1,2-Tetrachloroethane	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrachloroethene	ND	0.170	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Toluene	ND	0.190	1.00	ug/L	1	0H15005	08/15/10	08/16/10	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	08/24/2010 13:16

Trip Blank

1008127-09 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Empirical Laboratories, LLC										
Volatile Organic Compounds by GC/MS										
1,1,2-Trichloroethane	ND	0.260	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,1,1-Trichloroethane	ND	0.290	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Tetrahydrofuran	ND	1.00	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichloroethene	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Trichlorofluoromethane	ND	0.250	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl chloride	ND	0.200	2.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Vinyl acetate	ND	1.00	5.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Xylenes (total)	ND	0.220	1.00	ug/L	1	0H15005	08/15/10	08/16/10	SW8260B	U
Surrogate: Bromofluorobenzene		*96.8 %*	*75-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Dibromofluoromethane		*112 %*	*85-115*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: 1,2-Dichloroethane-d4		*98.8 %*	*70-120*			*0H15005*	*08/15/10*	*08/16/10*	*SW8260B*	
Surrogate: Toluene-d8		*93.3 %*	*85-120*			*0H15005*	*08/15/10*	*08/16/10*	*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	08/24/2010 13:16

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 0H16011											
Blank (0H16011-BLK1)				Prepared: 08/16/2010 Analyzed: 08/18/2010							
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 (0H16011-BS1)				Prepared: 08/16/2010 Analyzed: 08/18/2010							
Antimony	259.4	5.00	15.0	ug/L	250.0		104	80-120		20	
Arsenic	253.1	3.00	10.0	ug/L	250.0		101	80-120		20	
Barium	2146	5.00	40.0	ug/L	2000		107	80-120		20	
Beryllium	54.74	1.00	5.00	ug/L	50.00		109	80-120		20	
Cadmium	132.7	1.00	5.00	ug/L	125.0		106	80-120		20	
Chromium	206.2	2.00	10.0	ug/L	200.0		103	80-120		20	
Cobalt	505.9	5.00	12.5	ug/L	500.0		101	80-120		20	
Copper	272.8	4.00	10.0	ug/L	250.0		109	80-120		20	
Lead	265.4	1.50	3.00	ug/L	250.0		106	80-120		20	
Nickel	521.3	3.00	10.0	ug/L	500.0		104	80-120		20	
Selenium	250.8	3.00	5.00	ug/L	250.0		100	80-120		20	
Silver	255.1	1.00	3.00	ug/L	250.0		102	80-120		20	
Thallium	259.0	3.00	8.00	ug/L	250.0		104	80-120		20	
Vanadium	505.3	5.00	12.5	ug/L	500.0		101	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	08/24/2010 13:16

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 0H16011											
LCS (0H16011-BS1)				Prepared: 08/16/2010 Analyzed: 08/18/2010							
Zinc	499.3	5.00	20.0	ug/L	500.0		99.9	80-120		20	
Matrix Spike (0H16011-MS1)		Source: 1008106-11		Prepared: 08/16/2010 Analyzed: 08/18/2010							
Antimony	244.1	5.00	15.0	ug/L	250.0	ND	97.6	80-120		20	
Arsenic	235.4	3.00	10.0	ug/L	250.0	ND	94.2	80-120		20	
Barium	1946	5.00	40.0	ug/L	2000	11.21	96.7	80-120		20	
Beryllium	52.15	1.00	5.00	ug/L	50.00	ND	104	80-120		20	
Cadmium	123.1	1.00	5.00	ug/L	125.0	ND	98.5	80-120		20	
Chromium	195.4	2.00	10.0	ug/L	200.0	ND	97.7	80-120		20	
Cobalt	465.9	5.00	12.5	ug/L	500.0	ND	93.2	80-120		20	
Copper	248.4	4.00	10.0	ug/L	250.0	ND	99.4	80-120		20	
Lead	243.3	1.50	3.00	ug/L	250.0	1.645	96.7	80-120		20	
Nickel	474.4	3.00	10.0	ug/L	500.0	ND	94.9	80-120		20	
Selenium	233.9	3.00	5.00	ug/L	250.0	ND	93.6	80-120		20	
Silver	254.5	1.00	3.00	ug/L	250.0	ND	102	80-120		20	
Thallium	241.0	3.00	8.00	ug/L	250.0	ND	96.4	80-120		20	
Vanadium	466.4	5.00	12.5	ug/L	500.0	ND	93.3	80-120		20	
Zinc	460.5	5.00	20.0	ug/L	500.0	ND	92.1	80-120		20	
Matrix Spike (0H16011-MS2)		Source: 1008106-12		Prepared: 08/16/2010 Analyzed: 08/18/2010							
Antimony	237.8	5.00	15.0	ug/L	250.0	ND	95.1	80-120		20	
Arsenic	231.8	3.00	10.0	ug/L	250.0	ND	92.7	80-120		20	
Barium	1953	5.00	40.0	ug/L	2000	8.488	97.2	80-120		20	
Beryllium	51.53	1.00	5.00	ug/L	50.00	ND	103	80-120		20	
Cadmium	121.9	1.00	5.00	ug/L	125.0	ND	97.5	80-120		20	
Chromium	205.4	2.00	10.0	ug/L	200.0	ND	103	80-120		20	
Cobalt	456.1	5.00	12.5	ug/L	500.0	ND	91.2	80-120		20	
Copper	249.1	4.00	10.0	ug/L	250.0	ND	99.6	80-120		20	
Lead	243.4	1.50	3.00	ug/L	250.0	1.645	96.7	80-120		20	
Nickel	479.6	3.00	10.0	ug/L	500.0	ND	95.9	80-120		20	
Selenium	230.0	3.00	5.00	ug/L	250.0	ND	92.0	80-120		20	
Silver	252.9	1.00	3.00	ug/L	250.0	ND	101	80-120		20	

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

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 0H16011											
Matrix Spike (0H16011-MS2)		**Source: 1008106-12**		Prepared: 08/16/2010 Analyzed: 08/18/2010							
Thallium	236.3	3.00	8.00	ug/L	250.0	ND	94.5	80-120		20	
Vanadium	460.8	5.00	12.5	ug/L	500.0	ND	92.2	80-120		20	
Zinc	473.9	5.00	20.0	ug/L	500.0	7.793	93.2	80-120		20	
Matrix Spike Dup (0H16011-MSD1)		**Source: 1008106-11**		Prepared: 08/16/2010 Analyzed: 08/18/2010							
Antimony	247.2	5.00	15.0	ug/L	250.0	ND	98.9	80-120	1.26	20	
Arsenic	238.5	3.00	10.0	ug/L	250.0	ND	95.4	80-120	1.28	20	
Barium	1980	5.00	40.0	ug/L	2000	11.21	98.5	80-120	1.77	20	
Beryllium	51.95	1.00	5.00	ug/L	50.00	ND	104	80-120	0.386	20	
Cadmium	124.7	1.00	5.00	ug/L	125.0	ND	99.7	80-120	1.29	20	
Chromium	197.5	2.00	10.0	ug/L	200.0	ND	98.8	80-120	1.09	20	
Cobalt	471.7	5.00	12.5	ug/L	500.0	ND	94.3	80-120	1.24	20	
Copper	253.8	4.00	10.0	ug/L	250.0	ND	102	80-120	2.15	20	
Lead	247.9	1.50	3.00	ug/L	250.0	1.645	98.5	80-120	1.86	20	
Nickel	483.2	3.00	10.0	ug/L	500.0	ND	96.6	80-120	1.84	20	
Selenium	236.4	3.00	5.00	ug/L	250.0	ND	94.6	80-120	1.05	20	
Silver	256.7	1.00	3.00	ug/L	250.0	ND	103	80-120	0.872	20	
Thallium	244.6	3.00	8.00	ug/L	250.0	ND	97.8	80-120	1.47	20	
Vanadium	470.9	5.00	12.5	ug/L	500.0	ND	94.2	80-120	0.969	20	
Zinc	467.6	5.00	20.0	ug/L	500.0	ND	93.5	80-120	1.54	20	
Matrix Spike Dup (0H16011-MSD2)		**Source: 1008106-12**		Prepared: 08/16/2010 Analyzed: 08/18/2010							
Antimony	232.7	5.00	15.0	ug/L	250.0	ND	93.1	80-120	2.17	20	
Arsenic	230.2	3.00	10.0	ug/L	250.0	ND	92.1	80-120	0.710	20	
Barium	1947	5.00	40.0	ug/L	2000	8.488	96.9	80-120	0.313	20	
Beryllium	50.43	1.00	5.00	ug/L	50.00	ND	101	80-120	2.16	20	
Cadmium	120.8	1.00	5.00	ug/L	125.0	ND	96.7	80-120	0.865	20	
Chromium	195.1	2.00	10.0	ug/L	200.0	ND	97.6	80-120	5.13	20	
Cobalt	453.5	5.00	12.5	ug/L	500.0	ND	90.7	80-120	0.576	20	
Copper	249.0	4.00	10.0	ug/L	250.0	ND	99.6	80-120	0.0522	20	
Lead	241.2	1.50	3.00	ug/L	250.0	1.645	95.8	80-120	0.879	20	
Nickel	470.3	3.00	10.0	ug/L	500.0	ND	94.1	80-120	1.96	20	

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

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 0H16011											
Matrix Spike Dup (0H16011-MSD2)		**Source: 1008106-12**		Prepared: 08/16/2010 Analyzed: 08/18/2010							
Selenium	227.3	3.00	5.00	ug/L	250.0	ND	90.9	80-120	1.20	20	
Silver	250.0	1.00	3.00	ug/L	250.0	ND	100	80-120	1.14	20	
Thallium	235.1	3.00	8.00	ug/L	250.0	ND	94.0	80-120	0.509	20	
Vanadium	460.0	5.00	12.5	ug/L	500.0	ND	92.0	80-120	0.182	20	
Zinc	474.6	5.00	20.0	ug/L	500.0	7.793	93.4	80-120	0.143	20	

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

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 0H16002											
Blank (0H16002-BLK1)				Prepared & Analyzed: 08/16/2010							
Mercury	ND	0.0800	0.200	ug/L							U
LCS (0H16002-BS1)				Prepared & Analyzed: 08/16/2010							
Mercury	1.904	0.0800	0.200	ug/L	2.000		95.2	80-120			
Matrix Spike (0H16002-MS1)		Source: 1008106-01		Prepared & Analyzed: 08/16/2010							
Mercury	2.006	0.0800	0.200	ug/L	2.000	ND	100	80-120			
Matrix Spike (0H16002-MS2)		Source: 1008106-02		Prepared & Analyzed: 08/16/2010							
Mercury	1.975	0.0800	0.200	ug/L	2.000	ND	98.8	80-120			
Matrix Spike Dup (0H16002-MSD1)		Source: 1008106-01		Prepared & Analyzed: 08/16/2010							
Mercury	1.992	0.0800	0.200	ug/L	2.000	ND	99.6	80-120	0.722	20	
Matrix Spike Dup (0H16002-MSD2)		Source: 1008106-02		Prepared & Analyzed: 08/16/2010							
Mercury	2.000	0.0800	0.200	ug/L	2.000	ND	100	80-120	1.25	20	
Batch 0H16003											
Blank (0H16003-BLK1)				Prepared & Analyzed: 08/16/2010							
Mercury	ND	0.0800	0.200	ug/L							U
Blank (0H16003-BLK2)				Prepared & Analyzed: 08/16/2010							
Mercury	ND	0.0800	0.200	ug/L							U
Blank (0H16003-BLK3)				Prepared & Analyzed: 08/16/2010							
Mercury	ND	0.0800	0.200	ug/L							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	08/24/2010 13:16

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 0H16003											
Blank (0H16003-BLK4)				Prepared & Analyzed: 08/16/2010							
Mercury	ND	0.0800	0.200	ug/L							U
Blank (0H16003-BLK5)				Prepared & Analyzed: 08/16/2010							
Mercury	ND	0.0800	0.200	ug/L							U
Blank (0H16003-BLK6)				Prepared & Analyzed: 08/16/2010							
Mercury	ND	0.0800	0.200	ug/L							U
LCS (0H16003-BS1)				Prepared & Analyzed: 08/16/2010							
Mercury	1.860	0.0800	0.200	ug/L	2.000		93.0	80-120			
Matrix Spike (0H16003-MS1)		Source: 1008112-01		Prepared & Analyzed: 08/16/2010							
Mercury	2.100	0.0800	0.200	ug/L	2.000	ND	105	80-120			
Matrix Spike (0H16003-MS2)		Source: 1008127-08		Prepared & Analyzed: 08/16/2010							
Mercury	1.971	0.0800	0.200	ug/L	2.000	ND	98.5	80-120			
Matrix Spike Dup (0H16003-MSD1)		Source: 1008112-01		Prepared & Analyzed: 08/16/2010							
Mercury	2.117	0.0800	0.200	ug/L	2.000	ND	106	80-120	0.789	20	
Matrix Spike Dup (0H16003-MSD2)		Source: 1008127-08		Prepared & Analyzed: 08/16/2010							
Mercury	1.900	0.0800	0.200	ug/L	2.000	ND	95.0	80-120	3.65	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	08/24/2010 13:16

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 0H15005											
Blank (0H15005-BLK1)				Prepared: 08/15/2010 Analyzed: 08/16/2010							
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	
410 E Franklin St.	Project Number: RES-WrnCoLnd	Reported:
Monroe NC, 28112	Project Manager: Laura Minor	08/24/2010 13:16

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 0H15005											
Blank (0H15005-BLK1)				Prepared: 08/15/2010 Analyzed: 08/16/2010							
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	*28.91*			*ug/L*	*30.00*		*96.4*	*75-120*			
Surrogate: Dibromofluoromethane	*33.73*			*ug/L*	*30.00*		*112*	*85-115*			
Surrogate: 1,2-Dichloroethane-d4	*29.69*			*ug/L*	*30.00*		*99.0*	*70-120*			
Surrogate: Toluene-d8	*28.46*			*ug/L*	*30.00*		*94.9*	*85-120*			
LCS (0H15005-BS1)				Prepared & Analyzed: 08/15/2010							
Acetone	103	1.80	10.0	ug/L	100.0		103	40-140		30	
Acetonitrile	ND	1.67	5.00	ug/L				50-150		30	U
Benzene	48.9	0.140	1.00	ug/L	50.00		97.9	80-120		30	
Bromochloromethane	49.5	0.310	2.00	ug/L	50.00		99.0	65-130		30	
Bromodichloromethane	62.3	0.180	1.00	ug/L	50.00		125	75-120		30	
Bromoform	40.3	0.500	1.00	ug/L	50.00		80.5	70-130		30	
Bromomethane	25.4	0.320	2.00	ug/L	50.00		50.8	30-145		30	
2-Butanone	83.8	1.60	10.0	ug/L	100.0		83.8	30-150		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	08/24/2010 13:16

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 0H15005											
LCS (0H15005-BS1)					Prepared & Analyzed: 08/15/2010						
Carbon disulfide	42.6	0.260	1.00	ug/L	50.00		85.2	35-160		30	
Carbon tetrachloride	56.3	0.240	1.00	ug/L	50.00		113	65-140		30	
Chlorobenzene	45.6	0.210	1.00	ug/L	50.00		91.2	80-120		30	
Chloroethane	48.1	0.270	2.00	ug/L	50.00		96.2	60-135		30	
Chloroform	54.1	0.230	1.00	ug/L	50.00		108	65-135		30	
Chloromethane	30.8	0.360	2.00	ug/L	50.00		61.7	40-125		30	
Dibromochloromethane	52.3	0.180	1.00	ug/L	50.00		105	60-135		30	
1,2-Dibromo-3-chloropropane	34.5	0.550	2.00	ug/L	50.00		69.0	50-130		30	
1,2-Dibromoethane (EDB)	45.3	0.240	1.00	ug/L	50.00		90.6	80-120		30	
Dibromomethane	54.5	0.280	1.00	ug/L	50.00		109	75-125		30	
1,2-Dichlorobenzene	48.6	0.160	1.00	ug/L	50.00		97.1	70-120		30	
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L				50-150		30	U
1,4-Dichlorobenzene	47.1	0.250	1.00	ug/L	50.00		94.2	75-125		30	
1,1-Dichloroethane	54.4	0.240	1.00	ug/L	50.00		109	70-135		30	
1,2-Dichloroethane	63.1	0.220	1.00	ug/L	50.00		126	70-130		30	
1,1-Dichloroethene	45.4	0.280	1.00	ug/L	50.00		90.8	70-130		30	
cis-1,2-Dichloroethene	47.3	0.450	1.00	ug/L	50.00		94.6	70-125		30	
trans-1,2-Dichloroethene	44.5	0.530	1.00	ug/L	50.00		89.1	60-140		30	
1,2-Dichloropropane	53.9	0.270	1.00	ug/L	50.00		108	75-125		30	
cis-1,3-Dichloropropene	48.9	0.150	1.00	ug/L	50.00		97.8	70-130		30	
trans-1,3-Dichloropropene	52.3	0.170	1.00	ug/L	50.00		105	55-140		30	
Ethylbenzene	46.4	0.150	1.00	ug/L	50.00		92.9	75-125		30	
2-Hexanone	94.1	0.500	5.00	ug/L	100.0		94.1	55-130		30	
Iodomethane	30.1	0.370	5.00	ug/L	50.00		60.1	50-140		30	
Methylene chloride	48.7	1.67	5.00	ug/L	50.00		97.4	55-140		30	
4-Methyl-2-pentanone	107	0.500	5.00	ug/L	100.0		107	60-135		30	
Styrene	46.6	0.240	1.00	ug/L	50.00		93.3	65-135		30	
1,1,2,2-Tetrachloroethane	46.0	0.230	1.00	ug/L	50.00		92.0	65-130		30	
1,1,1,2-Tetrachloroethane	47.5	0.190	1.00	ug/L	50.00		95.0	80-130		30	
Tetrachloroethene	41.7	0.170	1.00	ug/L	50.00		83.4	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	08/24/2010 13:16

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 0H15005											
LCS (0H15005-BS1)				Prepared & Analyzed: 08/15/2010							
Toluene	44.7	0.190	1.00	ug/L	50.00		89.3	75-120		30	
1,1,2-Trichloroethane	43.8	0.260	1.00	ug/L	50.00		87.5	75-125		30	
1,1,1-Trichloroethane	52.4	0.290	1.00	ug/L	50.00		105	65-130		30	
Tetrahydrofuran	40.6	1.00	2.00	ug/L	50.00		81.1	70-130		30	
Trichloroethene	51.2	0.500	1.00	ug/L	50.00		102	70-125		30	
Trichlorofluoromethane	51.1	0.250	2.00	ug/L	50.00		102	60-145		30	
1,2,3-Trichloropropane	44.6	0.500	1.00	ug/L	50.00		89.1	75-125		30	
Vinyl chloride	39.5	0.200	2.00	ug/L	50.00		79.0	50-145		30	
Vinyl acetate	113	1.00	5.00	ug/L	99.95		113	60-150		30	
Xylenes (total)	140	0.220	1.00	ug/L	150.0		93.6	75-130		30	
Surrogate: Bromofluorobenzene	*29.91*			*ug/L*	*30.00*		*99.7*	*75-120*			
Surrogate: Dibromofluoromethane	*32.16*			*ug/L*	*30.00*		*107*	*85-115*			
Surrogate: 1,2-Dichloroethane-d4	*29.55*			*ug/L*	*30.00*		*98.5*	*70-120*			
Surrogate: Toluene-d8	*27.61*			*ug/L*	*30.00*		*92.0*	*85-120*			
LCS (0H15005-BS2)				Prepared & Analyzed: 08/15/2010							
Acetone	ND	1.80	10.0	ug/L				40-140		30	U
Acetonitrile	530	1.67	5.00	ug/L	500.0		106	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	08/24/2010 13:16

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 0H15005											
LCS (0H15005-BS2)				Prepared & Analyzed: 08/15/2010							
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	51.1	1.67	5.00	ug/L	50.00		102	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

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

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 0H15005											
LCS (0H15005-BS2)				Prepared & Analyzed: 08/15/2010							
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	*29.38*			*ug/L*	*30.00*		*97.9*	*75-120*			
Surrogate: Dibromofluoromethane	*33.10*			*ug/L*	*30.00*		*110*	*85-115*			
Surrogate: 1,2-Dichloroethane-d4	*29.36*			*ug/L*	*30.00*		*97.9*	*70-120*			
Surrogate: Toluene-d8	*28.21*			*ug/L*	*30.00*		*94.0*	*85-120*			
LCS Dup (0H15005-BSD1)				Prepared: 08/15/2010 Analyzed: 08/16/2010							
Acetone	118	1.80	10.0	ug/L	100.0		118	40-140	13.3	30	
Acetonitrile	ND	1.67	5.00	ug/L				50-150		30	U
Benzene	50.8	0.140	1.00	ug/L	50.00		102	80-120	3.75	30	
Bromochloromethane	51.2	0.310	2.00	ug/L	50.00		102	65-130	3.41	30	
Bromodichloromethane	66.3	0.180	1.00	ug/L	50.00		133	75-120	6.13	30	
Bromoform	39.6	0.500	1.00	ug/L	50.00		79.2	70-130	1.68	30	
Bromomethane	17.1	0.320	2.00	ug/L	50.00		34.3	30-145	38.8	30	
2-Butanone	92.4	1.60	10.0	ug/L	100.0		92.4	30-150	9.71	30	
Carbon disulfide	40.8	0.260	1.00	ug/L	50.00		81.5	35-160	4.45	30	
Carbon tetrachloride	61.3	0.240	1.00	ug/L	50.00		123	65-140	8.62	30	
Chlorobenzene	44.8	0.210	1.00	ug/L	50.00		89.6	80-120	1.74	30	
Chloroethane	50.4	0.270	2.00	ug/L	50.00		101	60-135	4.55	30	
Chloroform	58.7	0.230	1.00	ug/L	50.00		117	65-135	8.05	30	
Chloromethane	33.3	0.360	2.00	ug/L	50.00		66.7	40-125	7.78	30	
Dibromochloromethane	51.6	0.180	1.00	ug/L	50.00		103	60-135	1.26	30	
1,2-Dibromo-3-chloropropane	36.4	0.550	2.00	ug/L	50.00		72.8	50-130	5.47	30	
1,2-Dibromoethane (EDB)	44.9	0.240	1.00	ug/L	50.00		89.8	80-120	0.903	30	
Dibromomethane	58.1	0.280	1.00	ug/L	50.00		116	75-125	6.41	30	
1,2-Dichlorobenzene	50.3	0.160	1.00	ug/L	50.00		101	70-120	3.58	30	
trans-1,4-Dichloro-2-butene	ND	1.67	5.00	ug/L				50-150		30	U
1,4-Dichlorobenzene	48.9	0.250	1.00	ug/L	50.00		97.7	75-125	3.69	30	
1,1-Dichloroethane	59.0	0.240	1.00	ug/L	50.00		118	70-135	8.05	30	
1,2-Dichloroethane	72.0	0.220	1.00	ug/L	50.00		144	70-130	13.2	30	
1,1-Dichloroethene	45.7	0.280	1.00	ug/L	50.00		91.5	70-130	0.714	30	

Resolve Environmental Services, PLLC 410 E Franklin St. Monroe NC, 28112	Project: RES-Warren County Landfill Project Number: RES-WrnCoLnd Project Manager: Laura Minor	**Reported:** 08/24/2010 13:16

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 0H15005											
LCS Dup (0H15005-BSD1)					Prepared: 08/15/2010 Analyzed: 08/16/2010						
cis-1,2-Dichloroethene	49.6	0.450	1.00	ug/L	50.00		99.2	70-125	4.76	30	
trans-1,2-Dichloroethene	47.2	0.530	1.00	ug/L	50.00		94.5	60-140	5.88	30	
1,2-Dichloropropane	55.7	0.270	1.00	ug/L	50.00		111	75-125	3.28	30	
cis-1,3-Dichloropropene	48.6	0.150	1.00	ug/L	50.00		97.1	70-130	0.730	30	
trans-1,3-Dichloropropene	49.3	0.170	1.00	ug/L	50.00		98.6	55-140	5.86	30	
Ethylbenzene	47.3	0.150	1.00	ug/L	50.00		94.5	75-125	1.77	30	
2-Hexanone	94.5	0.500	5.00	ug/L	100.0		94.5	55-130	0.369	30	
Iodomethane	29.9	0.370	5.00	ug/L	50.00		59.7	50-140	0.699	30	
Methylene chloride	50.3	1.67	5.00	ug/L	50.00		101	55-140	3.28	30	
4-Methyl-2-pentanone	115	0.500	5.00	ug/L	100.0		115	60-135	7.57	30	
Styrene	46.9	0.240	1.00	ug/L	50.00		93.7	65-135	0.437	30	
1,1,2,2-Tetrachloroethane	47.5	0.230	1.00	ug/L	50.00		95.1	65-130	3.24	30	
1,1,1,2-Tetrachloroethane	47.1	0.190	1.00	ug/L	50.00		94.2	80-130	0.856	30	
Tetrachloroethene	41.4	0.170	1.00	ug/L	50.00		82.7	45-150	0.858	30	
Toluene	42.9	0.190	1.00	ug/L	50.00		85.8	75-120	4.05	30	
1,1,2-Trichloroethane	42.6	0.260	1.00	ug/L	50.00		85.2	75-125	2.69	30	
1,1,1-Trichloroethane	58.6	0.290	1.00	ug/L	50.00		117	65-130	11.2	30	
Tetrahydrofuran	44.5	1.00	2.00	ug/L	50.00		89.0	70-130	9.26	30	
Trichloroethene	54.8	0.500	1.00	ug/L	50.00		110	70-125	6.78	30	
Trichlorofluoromethane	57.5	0.250	2.00	ug/L	50.00		115	60-145	11.8	30	
1,2,3-Trichloropropane	47.1	0.500	1.00	ug/L	50.00		94.1	75-125	5.47	30	
Vinyl chloride	41.1	0.200	2.00	ug/L	50.00		82.3	50-145	4.13	30	
Vinyl acetate	121	1.00	5.00	ug/L	99.95		121	60-150	6.35	30	
Xylenes (total)	146	0.220	1.00	ug/L	150.0		97.1	75-130	3.67	30	
Surrogate: Bromofluorobenzene	*29.80*			*ug/L*	*30.00*		*99.3*	*75-120*			
Surrogate: Dibromofluoromethane	*33.88*			*ug/L*	*30.00*		*113*	*85-115*			
Surrogate: 1,2-Dichloroethane-d4	*29.64*			*ug/L*	*30.00*		*98.8*	*70-120*			
Surrogate: Toluene-d8	*25.34*			*ug/L*	*30.00*		*84.5*	*85-120*			

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	08/24/2010 13:16

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 0H15005											
LCS Dup (0H15005-BSD2)				Prepared: 08/15/2010 Analyzed: 08/16/2010							
Acetone	ND	1.80	10.0	ug/L				40-140		30	U
Acetonitrile	605	1.67	5.00	ug/L	500.0		121	50-150	13.3	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	52.8	1.67	5.00	ug/L	50.00		106	50-150	3.13	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	08/24/2010 13:16

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 0H15005											
LCS Dup (0H15005-BSD2)				Prepared: 08/15/2010 Analyzed: 08/16/2010							
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	*29.96*			*ug/L*	*30.00*		*99.9*	*75-120*			
Surrogate: Dibromofluoromethane	*33.73*			*ug/L*	*30.00*		*112*	*85-115*			
Surrogate: 1,2-Dichloroethane-d4	*30.94*			*ug/L*	*30.00*		*103*	*70-120*			
Surrogate: Toluene-d8	*27.86*			*ug/L*	*30.00*		*92.9*	*85-120*			

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Detected but below the Reporting Limit; 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

EMPIRICAL LABORATORIES, LLC - CHAIN OF CUSTODY RECORD

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

8723

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

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

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 #: 2415
CAR #:

Project No./Name: Warren County Landfill

Sampler's (Signature):

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.
1008127-01	8/12/10 1023	Equipment Blank	H2O	X	X		34	35-HY + 1C-Mi
-02	8/12/10 1010	WSW-1		X	X		4	
-03	8/12/10 1045	MW-4		X	X		4	
-04	8/12/10 1130	MW-3		X	X		4	
-05	8/12/10 1215	MW-2		X	X		4	
-06	8/12/10 1245	MW-1A		X	X		4	
-07	8/12/10 1142	SW-2		X	X		4	
-08	8/12/10 1225	SW-1		X	X		4	
-09		Trip Blank		X				2S-HY

	Date/Time	Received By: (Signature)
Sample Kit Prep'd by: (Signature)		
Relinquished by: (Signature)	8/12/10 1700	
Relinquished by: (Signature)		
Received for Laboratory by: (Signature)	8/13/10 08:30	Temperature 3.0°C

REMARKS:
Fed Ex # 871145612415

Details:
Page 1 of 1
Cooler No. 1 of 1
Date Shipped 8/12/10
Shipped By
Turnaround Standard

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

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1008127 Number of Coolers: 1 of 1

Client: Resolve Project: Warren Co Landfill

Date/Time Received: **8/13/10** **08:30** Date cooler(s) opened: **8/13/10**

Opened By (print): Will Schwab (signature): [signature]

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: 2415

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

How many: 1 Seal date: 8/12/10 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: 3.0 °C

Dates samples were logged-in: **8/13/10**

9. Initial this form to acknowledge login of sample(s): (Name): Will Schwab (Initial): WS
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

pH<2 for all metals

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

_____ CAR#: _____