1st Semi-Annual 2010 Groundwater Monitoring Report

for the

Old Franklin Landfill

Permit No: 57-01

September 2010

REIC

RESEARCH ENVIRONMENTAL & INDUSTRIAL CONSULTANTS, INC.

Improving the environment, one client at a time...

225 Industrial Park Rd.
Post Office Box 286
Beaver, WV 25813
800.999.0105
304.255.2500 • 304.255.2572 (fax)
website: www.reiclabs.com

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In preparing this report, the professional services of REI Consultants, Inc. have been performed, findings obtained, and conclusions reached in accordance with present State and Federal regulations, and generally accepted review principles and practices. Questions regarding any of the information presented in this report should be directed to REIC headquarters at (304) 255-2500.

NORTH CAROLINA PROFESSIONAL SEAL 028029 9-10-10 ENGINEER MICHAEL P. HOFE

Respectfully submitted,

9/10/10

Michael P. Hofe, P.E. (NC #28029)
Manager
Environmental Monitoring & Investigative Assessment Department

1.0 EXECUTIVE SUMMARY

REI Consultants, Inc. (REIC) has prepared the 1st Semi-Annual Water Quality Monitoring Report for 2010 for the Old Franklin Landfill, Permit No. 57-01, a closed municipal solid waste disposal facility located in Macon County, North Carolina. Water quality monitoring at the facility is performed on a semi-annual basis and consists of sampling groundwater monitoring wells in the vicinity of the landfill and a residential water supply well adjacent to the facility. This report has been prepared in accordance with NCAC 13B Section .1632(j).

The 1st Semi-Annual Monitoring Event was performed on April 13, 2010. Groundwater samples were collected from seven (7) monitoring wells; in addition, a sample was collected from one (1) water supply well location. All samples were analyzed for North Carolina Appendix I parameters. Volatile organic compounds (VOCs) that were detected above Solid Waste Section Limits (SWSLs) are given in the following table:

Parameter	Monitoring Well
Benzene	MW-1, MW-6CR
Chlorobenzene	MW-1, MW-7C
1,4-Dichlorobenzene	MW-1, MW-3, MW-6CR, MW-7C, MW-10
cis-1,2-Dichloroethene	MW-1, MW-6CR
Trichloroethene	MW-1, MW-6CR

The following parameters were detected above North Carolina groundwater standards:

Parameter	Monitoring Well
Barium	MW-7
Benzene	MW-1, MW-6CR
1,4-Dichlorobenzene	MW-1, MW-6CR, MW-7C

Statistical analysis of analytical results for metals yielded an elevation of cadmium in well MW-3.

One (1) residential water supply well was sampled, designated as Haire. Two other residential wells, designated as Dowdle and Keener, were not sampled, as power has been disconnected from these well pumps, and both residences use public water. No Appendix I parameters were detected in the Haire well with the exception of copper and zinc. However, concentrations of copper and zinc were well below North Carolina groundwater standards in the sample.

Static groundwater elevations were measured in each monitoring well prior to sampling. These measurements were converted to groundwater elevations, which were used to develop generalized potentiometric contours for both the shallow and bedrock aquifers in the vicinity of the Old Franklin Landfill. Groundwater in the uppermost aquifer appears to be flowing to the west and northwest in the vicinity of the waste area. The average shallow groundwater flow rate in the landfill vicinity has been estimated at 200 feet/year. Groundwater of the bedrock aquifer generally flows from east to west.

2.0 INTRODUCTION

REI Consultants, Inc. (REIC) has prepared the 1st Semi-Annual Water Quality Monitoring Report for 2010 for the Old Franklin Landfill, Permit No. 57-01, a closed municipal solid waste disposal facility located approximately two miles northeast of the town of Franklin in Macon County, North Carolina. The facility consists of a completed waste area, no longer active, that occupies approximately 14 acres of nearly 30 acres of property. Lake Emory (the Little Tennessee River) is situated to the west and northwest of the site.

The groundwater monitoring well network at the Old Franklin Landfill consists of wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-6A, MW-6CR, MW-7, MW-7A, MW-7C, MW-8, MW-9, and MW-10 (see Figures 1 and 2 for locations). Well MW-6CR was installed prior to the 1st Semi-Annual 2008 event in order to replace well MW-6C, which was discovered to be obstructed at depth during the 2nd Semi-Annual 2007 Event. Well MW-6C was properly abandoned and plugged in April 2008.

Monitoring wells MW-2 and MW-8 are located essentially hydraulically sidegradient of the waste area, and therefore are designated as the background wells for the facility. Monitoring wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-6A, MW-6CR, MW-7, MW-7A, MW-7C, MW-9, and MW-10 are monitored as compliance wells. Wells MW-1, MW-3, MW-6, MW-6CR, MW-7, MW-7C, and MW-10 are sampled semi-annually; wells MW-2, MW-4, MW-5, MW-6A, MW-7A, MW-8, and MW-9 are sampled biennially. All well samples are analyzed for North Carolina Appendix I parameters.

In addition to the above monitoring wells, a sample is collected from one (1) residential water supply well location adjacent to the landfill property, designated as Haire. The supply well water sample is analyzed semi-annually for Appendix I parameters. Formerly, samples were collected from additional residential wells

designated as Dowdle and Keener; however, power to the pumps in these wells has been disconnected, and therefore samples can no longer be obtained. In addition, these wells are no longer used, as both residences are connected to public water.

For the 1st Semi-Annual 2010 Monitoring Event, field sampling was performed on April 13, 2010. Samples were collected from the seven semi-annual well locations as well as the drinking water supply well. The biennial wells were sampled during the 1st Semi-Annual 2009 Event, and are scheduled to be sampled again during the 1st Semi-Annual event of 2011.

3.0 HYDROLOGIC EVALUATION

Static water levels were measured from the top of casing (TOC) prior to purging in all wells during the sampling event. These water level measurements, in conjunction with surveyed TOC elevation data, were used to calculate static groundwater elevations in each well. Groundwater elevation data from the 1st Semi-Annual Monitoring Event was contoured to represent the potentiometric surface of both the shallow and bedrock aquifers in the vicinity of the landfill. Elevation data and, in the case of the shallow aquifer, the influence of topographical features, were utilized to estimate contours. Copies of the resulting potentiometric maps are included in this report (See Figures 1 and Figure 2).

Wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-6A, MW-7, MW-7A, and MW-8 at the facility are screened in the soil/saprolite layer overlying the resident bedrock. Wells MW-4, MW-6CR, MW-7C, MW-9, and MW-10 are installed in bedrock.

Generally, groundwater of the shallow aquifer flows from the western end of the waste area to the west and northwest; the direction of flow across the easternmost area of the waste cannot be confirmed due to the lack of a shallow well in that vicinity.

For the bedrock aquifer, groundwater flow direction from east to west across the waste is indicated by the available data.

Previous investigators conducted in-situ aquifer slug tests in order to estimate typical hydraulic conductivities at the site. Elevation data from the shallow aquifer potentiometric map was utilized to estimate hydraulic gradients in the vicinity of the facility. This information has been applied in a form of Darcy's Law to calculate the groundwater seepage velocity in the upper-most aquifer under the site, which was estimated to be 200 ft/year. Groundwater flow rate calculations are included in Appendix A.

4.0 SAMPLING AND LABORATORY ANALYSIS

Monitoring wells at the Old Franklin Landfill were purged and sampled using laboratory decontaminated Teflon® single check valve bailers. Field testing of pH, temperature, conductivity, and turbidity were measured to ensure adequate purging. Samples were collected in pre-cleaned and appropriately preserved containers, transported in iced coolers, and delivered to the laboratory in good condition. All wells were sampled during the 1st Semi-Annual Sampling Event with the exception of the biennial wells. Several groundwater samples were noted as exhibiting very high turbidity. A summary of field sampling information is given in Table 1. Field sampling logs are included in Appendix B.

All samples were analyzed by REIC's North Carolina certified laboratory. The laboratory quality assurance program included all appropriate, method specific quality controls (QC). All laboratory data met the required QC criteria and stringent REIC acceptance review prior to inclusion in this report.

Volatile organic compounds (VOCs) that were detected above SWSLs are given in the following table:

Parameter	Monitoring Well
Benzene	MW-1, MW-6CR
Chlorobenzene	MW-1, MW-7C
1,4-Dichlorobenzene	MW-1, MW-3, MW-6CR, MW-7C, MW-10
cis-1,2-Dichloroethene	MW-1, MW-6CR
Trichloroethene	MW-1, MW-6CR

The following parameters were detected above North Carolina groundwater standards:

Parameter	Monitoring Well
Barium	MW-7
Benzene	MW-1, MW-6CR
1,4-Dichlorobenzene	MW-1, MW-6CR, MW-7C

One (1) residential water supply well was sampled, designated as Haire. The sample was collected from within the residence, and water was allowed to run for several minutes prior to sample collection. No Appendix I parameters were detected in the well with the exception of copper and zinc at concentrations well below the respective North Carolina groundwater standards.

A summary of laboratory results in included in Table 2. Laboratory reports and chain-of-custody records are included in Appendix C. Data have been reported to method detection limits (MDLs) as requested by NCDENR. However, note that any values reported below SWSLs, flagged with a "J" qualifier, are only estimates, are not quantitative, and should not be used numerically in any way. Historical laboratory results are given in Appendix D.

5.0 STATISTICAL ANALYSIS

A statistical analysis was conducted for the 1st Semi-Annual 2010 Sampling Event. Monitoring constituents were evaluated under the guidelines of "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance" (U.S. EPA Office of Solid Waste, July 1992). Downgradient well constituent concentrations were compared to upper prediction limits derived from historical data pooled from the two background wells, MW-2 and MW-8. Prediction intervals were constructed as follows. For constituents where greater than 50 percent of the data were below practical quantitation limits (PQLs)/SWSLs, a non-parametric prediction limit was constructed using the maximum historical background measurement. For constituents where more than 15 but less than 50 percent of the data were below PQLs/SWSLs, parametric prediction intervals modified by Cohen's Adjustment were utilized. Tables from "Statistical Methods for Groundwater Monitoring (Roger D. Gibbons, 1994) were utilized to calculate parameter limits. No parameters exhibited detection frequencies above PQLs/SWSLs at greater than 50 percent. Organic constituents were designated as significantly elevated when they were quantified at or above SWSLs.

A summary of the VOCs detected above SWSLs is as follows:

Parameter	Monitoring Well
Benzene	MW-1, MW-6CR
Chlorobenzene	MW-1, MW-7C
1,4-Dichlorobenzene	MW-1, MW-3, MW-6CR, MW-7C, MW-10
cis-1,2-Dichloroethene	MW-1, MW-6CR
Trichloroethene	MW-1, MW-6CR

Statistical analysis of monitoring well analytical results for metals yielded an elevation of cadmium in well MW-3. A summary of the statistical analysis is given in Appendix E.

6.0 CONCLUSIONS

- The 1st Semi-Annual 2010 Water Quality Monitoring Event at the Old Franklin Landfill has been performed in accordance with State and Federal Guidelines.

- The direction of groundwater flow in the uppermost aquifer in the vicinity of the waste area is generally to the west and northwest.

- The average rate of groundwater flow in the vicinity of the landfill in the uppermost aquifer is estimated at 200 feet/year.

- VOCs detected in compliance wells at the facility included benzene, chlorobenzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, and trichloroethene.

- The following VOCs were detected above North Carolina groundwater standards: benzene in wells MW-1 and MW-6C, and 1,4-dichlorobenzene in wells MW-1, MW-6CR, and MW-7C.

- Statistical analysis of monitoring well analytical results for metals yielded an elevation of cadmium in well MW-3.

- No metals exceeded North Carolina groundwater standards with the exception of barium in well MW-7.

- No Appendix I parameters were detected in the Haire residential water supply well with the exception of copper and zinc, at concentrations well below the respective North Carolina groundwater standards.

TABLE 1:

Macon County Solid Waste Authority

Old Franklin Landfill

Summary of Field Sampling

TABLE 1: Summary of Field Sampling

Old Franklin Landfill: Permit 57-01

Franklin, North Carolina

Sampling Date: 4/13/2010
Sampler(s): R. Farley
A. McBride
J. Kesterson
Weather Conditions: Sunny 63°F

Property	Units	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-6A	MW-6 CR	MW-7	MW-7A	MW-7C	MW-8	MW-9	MW-10	Dowdle	Haire	Keener
Sampling Depth	Feet	26.04	No Sample	50.50	No Sample	No Sample	33.50	No Sample	91.91	16.81	No Sample	14.06	No Sample	No Sample	13.81	No Sample		No Sample
Static Depth	Feet	25.90		49.00			33.21		43.83	14.73		13.90			10.89			
Well Depth	Feet	43.89		63.08			45.52		144.22	23.39		54.35			108.10			
Water Column Height	Feet	17.99		14.08			12.31		100.39	8.66		40.45			97.21			
Volume Purged	Liters	32		25			18		160	15		72			160			
Purging Status	-----	Finished Purging		Finished Purging					Finished Purging	Finished Purging		Finished Purging			Finished Purging			
Physical Properties	**Units**	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-6A**	**MW-6 CR**	**MW-7**	**MW-7A**	**MW-7C**	**MW-8**	**MW-9**	**MW-10**	**Dowdle**	**Haire**	**Keener**
pH	SU	6.34	No Sample	6.29	No Sample	No Sample	5.64	No Sample	6.61	5.77	No Sample	6.05	No Sample	No Sample	6.37	No Sample	5.53	No Sample
Temperature	°C	16.8		16.8			14.7		14.8	14.3		16.4			14.80		13.9	
Conductivity	umhos/cm	560		348			74.3		473	301		676			509		61.3	
Turbidity	NTU	104		395			793		7.67	>800		1.68			0.57		0.71	
Appearance	-----	Cloudy - No Odor		Cloudy - No Odor			Cloudy - No Odor		Clear - Slight Odor	Cloudy - No Odor		Clear - No Odor			Clear - Slight Odor		Clear - No Odor	
Total Suspended Solids (TSS)	mg/L	78		299			182		5	1500		5			11			1

TABLE 2:

Macon County Solid Waste Authority

Old Franklin Landfill

Summary of Detections (Analytical Results)

TABLE 2: SUMMARY OF DETECTIONS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-6A	MW-6 CR	MW-7	MW-7A	MW-7C	MW-8	MW-9
1,4-Dichlorobenzene	6	1	12.9	NS	2.5	NS	NS		NS	11.6		NS	6.7	NS	NS
Benzene	1	1	3.7	NS		NS	NS		NS	1.6		NS		NS	NS
Chlorobenzene	50	3	3.4	NS		NS	NS		NS			NS	5.3	NS	NS
cis-1,2-Dichloroethene	70	5	13.6	NS		NS	NS		NS	13.3		NS		NS	NS
Methylene chloride	5	1		NS		NS	NS		NS			NS		NS	NS
Tetrachloroethene	0.7	1		NS		NS	NS		NS			NS		NS	NS
Trichloroethene	3	1	1.5	NS		NS	NS		NS	1.2		NS		NS	NS
Xylenes (total)	500	5		NS		NS	NS		NS			NS		NS	NS
METALS	**NC 2L**	**SWSL**	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-6A**	**MW-6 CR**	**MW-7**	**MW-7A**	**MW-7C**	**MW-8**	**MW-9**
Arsenic	10	10		NS		NS	NS		NS			NS		NS	NS
Barium	700	100	261	NS	334	NS	NS	283	NS	278	1330	NS	480	NS	NS
Beryllium	NL	1		NS		NS	NS		NS			NS		NS	NS
Cadmium	2	1		NS	1.6	NS	NS		NS			NS		NS	NS
Chromium	10	10		NS		NS	NS		NS			NS		NS	NS
Cobalt	NL	10		NS	21.4	NS	NS		NS	14.3	22.6	NS	15.9	NS	NS
Copper	1000	10		NS	18.9	NS	NS		NS		26.5	NS		NS	NS
Lead	15	10		NS		NS	NS		NS			NS		NS	NS
Nickel	100	50		NS		NS	NS		NS			NS		NS	NS
Vanadium	NL	25		NS		NS	NS		NS			NS		NS	NS
Zinc	1000	10		NS	14.6	NS	NS	11.2	NS		46.5	NS		NS	NS
Total Suspended Solids (TSS)		1	78	NS	299	NS	NS	182	NS	5	1500	NS	5	NS	NS

NOTES:

1. *Solid Waste Section Limit (SWSL)*
2. *NL – Constituent does not have a NC2L Standard*
3. *Constituents that exceed the NC2L Standard are Highlighted in Red*
4. *DRY – Well was dry during sampling event*
5. *All constituents measured in µg/L*
6. *Only compounds detected above the laboratory SWSL are listed*
7. *NS – Not Sampled*

TABLE 2: SUMMARY OF DETECTIONS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	MW-10	Dowdle	Haire	Keener
1,4-Dichlorobenzene	6	1	4.0	NS		NS
Benzene	1	1		NS		NS
Chlorobenzene	50	3		NS		NS
cis-1,2-Dichloroethene	70	5		NS		NS
Methylene chloride	5	1		NS		NS
Tetrachloroethene	0.7	1		NS		NS
Trichloroethene	3	1		NS		NS
Xylenes (total)	500	5		NS		NS
METALS	**NC 2L**	**SWSL**	**MW-10**	**Dowdle**	**Haire**	**Keener**
Arsenic	10	10		NS		NS
Barium	700	100	106	NS		NS
Beryllium	NL	1		NS		NS
Cadmium	2	1		NS		NS
Chromium	10	10		NS		NS
Cobalt	NL	10		NS		NS
Copper	1000	10		NS	112	NS
Lead	15	10		NS		NS
Nickel	100	50		NS		NS
Vanadium	NL	25		NS		NS
Zinc	1000	10		NS	45.8	NS
Total Suspended Solids (TSS)		1	11	NS	1	NS

NOTES:

1. *Solid Waste Section Limit (SWSL)*
2. *NL – Constituent does not have a NC2L Standard*
3. *Constituents that exceed the NC2L Standard are Highlighted in Red*
4. *DRY – Well was dry during sampling event*
5. *All constituents measured in µg/L*
6. *Only compounds detected above the laboratory SWSL are listed*
7. *NS – Not Sampled*

APPENDIX A:

Macon County Solid Waste Authority

Old Franklin Landfill

Groundwater Flow Rate Calculations

Old Franklin Landfill

Flow Path		
X	Y	Distance (ft)
-1550.4	63.8	
-1520.4	73.3	31.5
-1495.9	79.0	25.2
-1468.7	81.8	27.4
-1440.6	81.2	28.0
-1403.4	77.5	37.4
-1339.8	72.6	63.8
-1285.4	67.6	54.6
-1242.3	63.6	43.3
-1202.7	58.4	39.9
-1163.3	51.0	40.1
-1119.4	41.6	44.8
-1077.7	29.7	43.4
-1043.2	16.3	37.1
-1004.4	-5.2	44.3
-979.6	3.4	26.2
-948.0	3.9	31.7
-917.0	4.3	30.9
-902.8	1.1	14.5
-886.5	2.2	16.3
-870.6	3.6	16.0
-855.2	5.7	15.5
-841.9	3.9	13.4
-829.0	4.1	12.9
-819.6	5.1	9.5
-813.4	7.9	6.9

Hydraulic gradient, I =	0.119	ft/ft
K =	4.8E-04	cm/sec
n_{eff} =	0.3	
$V = KI/n_{eff}$ =	200	ft/yr

Horizontal Distance	754.7	ft
Vertical Difference	90	ft

APPENDIX B:

Macon County Solid Waste Authority

Old Franklin Landfill

Field Sample Logs

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-1

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked		x	Concrete/Grout Pad Present		x
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 11:45 **Weather Conditions:** Sunny 70°F

Static Depth (Depth to Water)	25.90	(Ft)	Volume	10.41 (Liters)
Well Depth	43.89	(Ft)	3 Volumes	31.24 (Liters)
Water Column Height	17.99	(Ft)	Volume Purged	32.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
11:49	6.33	555.0	16.3	1.43	1
11:52	6.36	556.0	16.1	28.40	6
11:55	6.35	562.0	16.1	91.10	12
11:57	6.35	559.0	16.2	102.00	18
12:00	6.36	560.0	16.2	111.00	24
12:03	6.37	560.0	16.2	99.30	30
12:04		Finished Purging			32

SAMPLING DATA

Date: 4/13/2010 **Time:** 12:08

Method: Teflon Bailer **Sampling Depth:** 26.04'

pH: 6.34 *(SU)* **Conductivity:** 560 *(umhos/cm)*

Temperature: 16.8 *(°C)* **Turbidity:** 104 *(NTU)*

Odor and Physical Appearance of Sample:

Cloudy - No Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-3

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 12:32 **Weather Conditions:** Sunny 83°F

Static Depth (Depth to Water)	49.00	(Ft)	Volume	8.15 (Liters)
Well Depth	63.08	(Ft)	3 Volumes	24.45 (Liters)
Water Column Height	14.08	(Ft)	Volume Purged	25.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
12:36	6.34	280.0	17.3	18.07	1
12:37	6.30	312.0	16.1	107.00	5
12:39	6.33	324.0	15.4	280.00	10
12:42	6.33	334.0	15.5	340.00	15
12:44	6.30	355.0	15.3	453.00	20
12:46	6.32	354.0	15.4	608.00	25
12:46		Finished Purging			25

SAMPLING DATA

Date: 4/13/2010 **Time:** 12:56

Method: Teflon Bailer **Sampling Depth:** 50.50'

pH: 6.29 *(SU)* **Conductivity:** 348 *(umhos/cm)*

Temperature: 16.8 *(°C)* **Turbidity:** 395 *(NTU)*

Odor and Physical Appearance of Sample:

Cloudy - No Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-6

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 08:05 **Weather Conditions:** Sunny 43°F

Static Depth (Depth to Water)	33.21	(Ft)	Volume	7.12 (Liters)
Well Depth	45.52	(Ft)	3 Volumes	21.38 (Liters)
Water Column Height	12.31	(Ft)	Volume Purged	18.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
08:10	5.21	75.0	13.2	17.33	1
08:11	5.18	69.9	13.8	>800	3
08:13	5.28	71.8	14.1	>800	6
08:14	5.23	72.4	14.3	>800	9
08:16	5.34	72.9	14.4	>800	12
08:18	5.31	73.3	14.0	>800	15
08:20	5.33	73.7	14.3	>800	18

SAMPLING DATA

Date: 4/13/2010 **Time:** 09:15

Method: Teflon Bailer **Sampling Depth:** 33.50'

pH: 5.64 *(SU)* **Conductivity:** 74.3 *(umhos/cm)*

Temperature: 14.7 *(°C)* **Turbidity:** 793 *(NTU)*

Odor and Physical Appearance of Sample:

Cloudy - No Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-6CR

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 08:00 **Weather Conditions:** Sunny 43°F

Static Depth (Depth to Water)	43.83	(Ft)	Volume	58.12	(Liters)
Well Depth	144.22	(Ft)	3 Volumes	174.37	(Liters)
Water Column Height	100.39	(Ft)	Volume Purged	160.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
08:27	6.50	512.0	13.9	5.08	1
08:36	6.69	517.0	14.6	2.32	32
08:47	6.69	625.0	14.8	1.69	64
08:58	6.70	557.0	14.8	3.00	96
09:11	6.71	504.0	15.0	1.49	128
09:23	6.68	474.0	15.1	1.85	160
09:23		Finished Purging			160

SAMPLING DATA

Date: 4/13/2010 **Time:** 09:30

Method: Teflon Bailer **Sampling Depth:** 91.91'

pH: 6.61 *(SU)* **Conductivity:** 473 *(umhos/cm)*

Temperature: 14.8 *(°C)* **Turbidity:** 7.67 *(NTU)*

Odor and Physical Appearance of Sample:

Clear - Slight Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-7

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 11:08 **Weather Conditions:** Sunny 68°F

Static Depth (Depth to Water)	14.73	(Ft)	Volume	5.01 (Liters)
Well Depth	23.39	(Ft)	3 Volumes	15.04 (Liters)
Water Column Height	8.66	(Ft)	Volume Purged	15.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
11:11	5.89	310.0	14.7	11.59	1
11:12	5.82	305.0	14.3	>800	3
11:13	5.81	297.0	14.0	>800	6
11:14	5.81	292.0	13.9	>800	9
11:15	5.79	294.0	14.0	>800	12
11:17	5.70	290.0	14.1	>800	15
11:17		Finished Purging			15

SAMPLING DATA

Date: 4/13/2010 **Time:** 11:19

Method: Teflon Bailer **Sampling Depth:** 16.81'

pH: 5.77 *(SU)* **Conductivity:** 301 *(umhos/cm)*

Temperature: 14.3 *(°C)* **Turbidity:** >800 *(NTU)*

Odor and Physical Appearance of Sample:

Cloudy - No Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-7C

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 11:04 **Weather Conditions:** Sunny 68°F

Static Depth (Depth to Water)	13.90	(Ft)	Volume	23.42	(Liters)
Well Depth	54.35	(Ft)	3 Volumes	70.26	(Liters)
Water Column Height	40.45	(Ft)	Volume Purged	72.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
11:24	6.46	626.0	14.3	3.17	1
11:26	6.64	644.0	15.5	4.60	13
11:28	6.09	653.0	15.8	7.94	26
11:30	6.08	665.0	15.9	10.80	39
11:32	6.03	671.0	16.0	4.28	52
11:34	6.05	676.0	16.1	4.69	65
11:35		Finished Purging			72

SAMPLING DATA

Date: 4/13/2010 **Time:** 11:40

Method: Teflon Bailer **Sampling Depth:** 14.06'

pH: 6.05 *(SU)* **Conductivity:** 6.76 *(umhos/cm)*

Temperature: 16.4 *(°C)* **Turbidity:** 1.68 *(NTU)*

Odor and Physical Appearance of Sample:

Clear - No Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-10

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 09:48 **Weather Conditions:** Sunnly 65°F

Static Depth (Depth to Water)	10.89	(Ft)	Volume	56.28	(Liters)
Well Depth	108.10	(Ft)	3 Volumes	168.85	(Liters)
Water Column Height	97.21	(Ft)	Volume Purged	160.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
09:58	6.36	472.0	13.4	1.37	1
10:05	6.48	472.0	13.9	16.63	32
10:12	6.37	484.0	14.2	3.54	64
10:21	6.31	503.0	14.3	0.92	96
10:29	6.37	508.0	14.2	3.66	128
10:38	6.38	504.0	14.2	1.72	160
10:38		Finished Purging			160

SAMPLING DATA

Date: 4/13/2010 **Time:** 10:46

Method: Teflon Bailer **Sampling Depth:** 13.81'

pH: 6.37 / DUP 6.37 *(SU)* **Conductivity:** 509 / DUP 507 *(umhos/cm)*

Temperature: 14.8 / DUP 14.8 *(°C)* **Turbidity:** 0.57 / DUP 0.63 *(NTU)*

Odor and Physical Appearance of Sample:

Clear - Slight Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

APPENDIX C:

Macon County Solid Waste Authority

Old Franklin Landfill

Laboratory Results and Chain-of-Custody

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

Improving the environment, one client at a time...

April 30, 2010

Mr. Chris Stahl
MACON COUNTY SOLID WASTE MANAGEMENT
5 WEST MAIN ST
FRANKLIN NC 28734

TEL: (828) 349-2100
FAX (828) 349-2185

RE: OLD FRANKLIN LANDFILL

Order No.: 1004B81

Dear Mr. Chris Stahl:

REI Consultants, Inc. received 10 sample(s) on 4/15/2010 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Michelle Ellison

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-01A
Client Sample ID:	MW-1	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 12:08:00 PM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	0.211	µg/L	J	0.200	6.00	4/22/2010 11:01:38 PM
Arsenic	1.39	µg/L	J	1.00	10.0	4/22/2010 11:01:38 PM
Barium	261	µg/L		1.00	100	4/22/2010 11:01:38 PM
Beryllium	ND	µg/L		0.200	1.00	4/22/2010 11:01:38 PM
Cadmium	0.211	µg/L	J	0.200	1.00	4/22/2010 11:01:38 PM
Chromium	3.21	µg/L	J	1.00	10.0	4/22/2010 11:01:38 PM
Cobalt	2.79	µg/L	J	1.00	10.0	4/22/2010 11:01:38 PM
Copper	4.30	µg/L	J	1.00	10.0	4/22/2010 11:01:38 PM
Lead	0.438	µg/L	J	0.200	10.0	4/22/2010 11:01:38 PM
Nickel	5.49	µg/L	J	2.00	50.0	4/22/2010 11:01:38 PM
Selenium	1.90	µg/L	J	1.00	10.0	4/22/2010 11:01:38 PM
Silver	ND	µg/L		1.00	10.0	4/26/2010 8:10:49 PM
Thallium	ND	µg/L		0.200	5.50	4/22/2010 11:01:38 PM
Vanadium	3.17	µg/L	J	1.00	25.0	4/22/2010 11:01:38 PM
Zinc	6.21	µg/L	J	3.00	10.0	4/22/2010 11:01:38 PM

NOTES:
Matrix spike recovery for Silver did not meet REIC control criteria due to matrix interference.

VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 1:27:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 1:27:00 PM
Benzene	3.7	µg/L		0.13	1.0	4/15/2010 1:27:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 1:27:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 1:27:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 1:27:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 1:27:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 1:27:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 1:27:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 1:27:00 PM
Chlorobenzene	3.4	µg/L		0.18	3.0	4/15/2010 1:27:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 1:27:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 1:27:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 1:27:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 1:27:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 1:27:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 1:27:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 1:27:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-01A
Client Sample ID:	MW-1	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 12:08:00 PM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
1,2-Dichlorobenzene	1.0	µg/L	J	0.45	5.0	4/15/2010 1:27:00 PM
1,4-Dichlorobenzene	12.9	µg/L		0.29	1.0	4/15/2010 1:27:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 1:27:00 PM
1,1-Dichloroethane	2.9	µg/L	J	0.38	5.0	4/15/2010 1:27:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 1:27:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 1:27:00 PM
cis-1,2-Dichloroethene	13.6	µg/L		0.23	5.0	4/15/2010 1:27:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 1:27:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 1:27:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 1:27:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 1:27:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 1:27:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 1:27:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 1:27:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 1:27:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 1:27:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 1:27:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 1:27:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 1:27:00 PM
Tetrachloroethene	1.0	µg/L	J	0.20	1.0	4/15/2010 1:27:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 1:27:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 1:27:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 1:27:00 PM
Trichloroethene	1.5	µg/L		0.30	1.0	4/15/2010 1:27:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 1:27:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 1:27:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 1:27:00 PM
Vinyl chloride	0.9	µg/L	J	0.22	1.0	4/15/2010 1:27:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 1:27:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 1:27:00 PM
Surr: 1,2-Dichloroethane-d4	100	%REC			80-120	4/15/2010 1:27:00 PM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	4/15/2010 1:27:00 PM
Surr: Dibromofluoromethane	103	%REC			80-120	4/15/2010 1:27:00 PM
Surr: Toluene-d8	101	%REC			88-110	4/15/2010 1:27:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	78,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-02A
Client Sample ID:	MW-3	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 12:56:00 PM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/22/2010 11:19:13 PM
Arsenic	2.78	µg/L	J	1.00	10.0	4/22/2010 11:19:13 PM
Barium	334	µg/L		1.00	100	4/22/2010 11:19:13 PM
Beryllium	ND	µg/L		0.200	1.00	4/22/2010 11:19:13 PM
Cadmium	1.64	µg/L		0.200	1.00	4/22/2010 11:19:13 PM
Chromium	2.24	µg/L	J	1.00	10.0	4/22/2010 11:19:13 PM
Cobalt	21.4	µg/L		1.00	10.0	4/22/2010 11:19:13 PM
Copper	18.9	µg/L		1.00	10.0	4/22/2010 11:19:13 PM
Lead	3.19	µg/L	J	0.200	10.0	4/22/2010 11:19:13 PM
Nickel	5.70	µg/L	J	2.00	50.0	4/22/2010 11:19:13 PM
Selenium	1.56	µg/L	J	1.00	10.0	4/22/2010 11:19:13 PM
Silver	ND	µg/L		1.00	10.0	4/22/2010 11:19:13 PM
Thallium	ND	µg/L		0.200	5.50	4/22/2010 11:19:13 PM
Vanadium	5.40	µg/L	J	1.00	25.0	4/22/2010 11:19:13 PM
Zinc	14.6	µg/L		3.00	10.0	4/22/2010 11:19:13 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 1:59:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 1:59:00 PM
Benzene	0.4	µg/L	J	0.13	1.0	4/15/2010 1:59:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 1:59:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 1:59:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 1:59:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 1:59:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 1:59:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 1:59:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 1:59:00 PM
Chlorobenzene	0.9	µg/L	J	0.18	3.0	4/15/2010 1:59:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 1:59:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 1:59:00 PM
Chloromethane	0.6	µg/L	J	0.33	1.0	4/15/2010 1:59:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 1:59:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 1:59:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 1:59:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 1:59:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 1:59:00 PM
1,4-Dichlorobenzene	2.5	µg/L		0.29	1.0	4/15/2010 1:59:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-02A
Client Sample ID:	MW-3	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 12:56:00 PM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 1:59:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 1:59:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 1:59:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 1:59:00 PM
cis-1,2-Dichloroethene	0.8	µg/L	J	0.23	5.0	4/15/2010 1:59:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 1:59:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 1:59:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 1:59:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 1:59:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 1:59:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 1:59:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 1:59:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 1:59:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 1:59:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 1:59:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 1:59:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 1:59:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 1:59:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 1:59:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 1:59:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 1:59:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 1:59:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 1:59:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 1:59:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 1:59:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 1:59:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 1:59:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 1:59:00 PM
Surr: 1,2-Dichloroethane-d4	100	%REC			80-120	4/15/2010 1:59:00 PM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	4/15/2010 1:59:00 PM
Surr: Dibromofluoromethane	106	%REC			80-120	4/15/2010 1:59:00 PM
Surr: Toluene-d8	101	%REC			88-110	4/15/2010 1:59:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	299,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-03A
Client Sample ID:	MW-6	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 9:15:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/22/2010 11:25:06 PM
Arsenic	ND	µg/L		1.00	10.0	4/22/2010 11:25:06 PM
Barium	283	µg/L		1.00	100	4/22/2010 11:25:06 PM
Beryllium	ND	µg/L		0.200	1.00	4/22/2010 11:25:06 PM
Cadmium	ND	µg/L		0.200	1.00	4/22/2010 11:25:06 PM
Chromium	ND	µg/L		1.00	10.0	4/22/2010 11:25:06 PM
Cobalt	3.58	µg/L	J	1.00	10.0	4/22/2010 11:25:06 PM
Copper	3.38	µg/L	J	1.00	10.0	4/22/2010 11:25:06 PM
Lead	1.96	µg/L	J	0.200	10.0	4/22/2010 11:25:06 PM
Nickel	ND	µg/L		2.00	50.0	4/22/2010 11:25:06 PM
Selenium	1.28	µg/L	J	1.00	10.0	4/22/2010 11:25:06 PM
Silver	ND	µg/L		1.00	10.0	4/22/2010 11:25:06 PM
Thallium	ND	µg/L		0.200	5.50	4/22/2010 11:25:06 PM
Vanadium	1.68	µg/L	J	1.00	25.0	4/22/2010 11:25:06 PM
Zinc	11.2	µg/L		3.00	10.0	4/22/2010 11:25:06 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 2:32:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 2:32:00 PM
Benzene	ND	µg/L		0.13	1.0	4/15/2010 2:32:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 2:32:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 2:32:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 2:32:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 2:32:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 2:32:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 2:32:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 2:32:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/15/2010 2:32:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 2:32:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 2:32:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 2:32:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 2:32:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 2:32:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 2:32:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 2:32:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 2:32:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/15/2010 2:32:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-03A
Client Sample ID:	MW-6	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 9:15:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 2:32:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 2:32:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 2:32:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 2:32:00 PM
cis-1,2-Dichloroethene	0.4	µg/L	J	0.23	5.0	4/15/2010 2:32:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 2:32:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 2:32:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 2:32:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 2:32:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 2:32:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 2:32:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 2:32:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 2:32:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 2:32:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 2:32:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 2:32:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 2:32:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 2:32:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 2:32:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 2:32:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 2:32:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 2:32:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 2:32:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 2:32:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 2:32:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 2:32:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 2:32:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 2:32:00 PM
Surr: 1,2-Dichloroethane-d4	103	%REC			80-120	4/15/2010 2:32:00 PM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	4/15/2010 2:32:00 PM
Surr: Dibromofluoromethane	103	%REC			80-120	4/15/2010 2:32:00 PM
Surr: Toluene-d8	99.7	%REC			88-110	4/15/2010 2:32:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	182,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-04A
Client Sample ID:	MW-6 CR	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 9:30:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/22/2010 11:30:59 PM
Arsenic	2.88	µg/L	J	1.00	10.0	4/22/2010 11:30:59 PM
Barium	278	µg/L		1.00	100	4/22/2010 11:30:59 PM
Beryllium	ND	µg/L		0.200	1.00	4/22/2010 11:30:59 PM
Cadmium	ND	µg/L		0.200	1.00	4/22/2010 11:30:59 PM
Chromium	ND	µg/L		1.00	10.0	4/22/2010 11:30:59 PM
Cobalt	14.3	µg/L		1.00	10.0	4/22/2010 11:30:59 PM
Copper	1.70	µg/L	J	1.00	10.0	4/22/2010 11:30:59 PM
Lead	ND	µg/L		0.200	10.0	4/22/2010 11:30:59 PM
Nickel	8.98	µg/L	J	2.00	50.0	4/22/2010 11:30:59 PM
Selenium	1.13	µg/L	J	1.00	10.0	4/22/2010 11:30:59 PM
Silver	ND	µg/L		1.00	10.0	4/22/2010 11:30:59 PM
Thallium	ND	µg/L		0.200	5.50	4/22/2010 11:30:59 PM
Vanadium	ND	µg/L		1.00	25.0	4/22/2010 11:30:59 PM
Zinc	3.94	µg/L	J	3.00	10.0	4/22/2010 11:30:59 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 3:05:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 3:05:00 PM
Benzene	1.6	µg/L		0.13	1.0	4/15/2010 3:05:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 3:05:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 3:05:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 3:05:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 3:05:00 PM
2-Butanone	67.8	µg/L	J	4.68	100	4/15/2010 3:05:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 3:05:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 3:05:00 PM
Chlorobenzene	1.2	µg/L	J	0.18	3.0	4/15/2010 3:05:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 3:05:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 3:05:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 3:05:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 3:05:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 3:05:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 3:05:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 3:05:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 3:05:00 PM
1,4-Dichlorobenzene	11.6	µg/L		0.29	1.0	4/15/2010 3:05:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-04A
Client Sample ID:	MW-6 CR	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 9:30:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 3:05:00 PM
1,1-Dichloroethane	1.6	µg/L	J	0.38	5.0	4/15/2010 3:05:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 3:05:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 3:05:00 PM
cis-1,2-Dichloroethene	13.3	µg/L		0.23	5.0	4/15/2010 3:05:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 3:05:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 3:05:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 3:05:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 3:05:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 3:05:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 3:05:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 3:05:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 3:05:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 3:05:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 3:05:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 3:05:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 3:05:00 PM
Tetrachloroethene	0.6	µg/L	J	0.20	1.0	4/15/2010 3:05:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 3:05:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 3:05:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 3:05:00 PM
Trichloroethene	1.2	µg/L		0.30	1.0	4/15/2010 3:05:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 3:05:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 3:05:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 3:05:00 PM
Vinyl chloride	0.4	µg/L	J	0.22	1.0	4/15/2010 3:05:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 3:05:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 3:05:00 PM
Surr: 1,2-Dichloroethane-d4	102	%REC			80-120	4/15/2010 3:05:00 PM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	4/15/2010 3:05:00 PM
Surr: Dibromofluoromethane	104	%REC			80-120	4/15/2010 3:05:00 PM
Surr: Toluene-d8	100	%REC			88-110	4/15/2010 3:05:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	5,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-05A
Client Sample ID:	MW-7	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 11:19:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/22/2010 11:36:52 PM
Arsenic	1.06	µg/L	J	1.00	10.0	4/22/2010 11:36:52 PM
Barium	1,330	µg/L		1.00	100	4/22/2010 11:36:52 PM
Beryllium	0.748	µg/L	J	0.200	1.00	4/22/2010 11:36:52 PM
Cadmium	0.421	µg/L	J	0.200	1.00	4/22/2010 11:36:52 PM
Chromium	7.37	µg/L	J	1.00	10.0	4/22/2010 11:36:52 PM
Cobalt	22.6	µg/L		1.00	10.0	4/22/2010 11:36:52 PM
Copper	26.5	µg/L		1.00	10.0	4/22/2010 11:36:52 PM
Lead	6.79	µg/L	J	0.200	10.0	4/22/2010 11:36:52 PM
Nickel	3.26	µg/L	J	2.00	50.0	4/22/2010 11:36:52 PM
Selenium	3.05	µg/L	J	1.00	10.0	4/22/2010 11:36:52 PM
Silver	ND	µg/L		1.00	10.0	4/22/2010 11:36:52 PM
Thallium	0.280	µg/L	J	0.200	5.50	4/22/2010 11:36:52 PM
Vanadium	22.2	µg/L	J	1.00	25.0	4/22/2010 11:36:52 PM
Zinc	46.5	µg/L		3.00	10.0	4/22/2010 11:36:52 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 3:37:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 3:37:00 PM
Benzene	ND	µg/L		0.13	1.0	4/15/2010 3:37:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 3:37:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 3:37:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 3:37:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 3:37:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 3:37:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 3:37:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 3:37:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/15/2010 3:37:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 3:37:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 3:37:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 3:37:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 3:37:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 3:37:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 3:37:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 3:37:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 3:37:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/15/2010 3:37:00 PM

Key:

MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-05A
Client Sample ID:	MW-7	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 11:19:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 3:37:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 3:37:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 3:37:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 3:37:00 PM
cis-1,2-Dichloroethene	0.4	µg/L	J	0.23	5.0	4/15/2010 3:37:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 3:37:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 3:37:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 3:37:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 3:37:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 3:37:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 3:37:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 3:37:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 3:37:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 3:37:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 3:37:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 3:37:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 3:37:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 3:37:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 3:37:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 3:37:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 3:37:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 3:37:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 3:37:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 3:37:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 3:37:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 3:37:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 3:37:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 3:37:00 PM
Surr: 1,2-Dichloroethane-d4	103	%REC			80-120	4/15/2010 3:37:00 PM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	4/15/2010 3:37:00 PM
Surr: Dibromofluoromethane	104	%REC			80-120	4/15/2010 3:37:00 PM
Surr: Toluene-d8	100	%REC			88-110	4/15/2010 3:37:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	1,500,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-06A
Client Sample ID:	MW-7C	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 11:40:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/22/2010 11:42:45 PM
Arsenic	1.69	µg/L	J	1.00	10.0	4/22/2010 11:42:45 PM
Barium	480	µg/L		1.00	100	4/22/2010 11:42:45 PM
Beryllium	ND	µg/L		0.200	1.00	4/22/2010 11:42:45 PM
Cadmium	0.379	µg/L	J	0.200	1.00	4/22/2010 11:42:45 PM
Chromium	ND	µg/L		1.00	10.0	4/22/2010 11:42:45 PM
Cobalt	15.9	µg/L		1.00	10.0	4/22/2010 11:42:45 PM
Copper	2.22	µg/L	J	1.00	10.0	4/22/2010 11:42:45 PM
Lead	ND	µg/L		0.200	10.0	4/22/2010 11:42:45 PM
Nickel	5.39	µg/L	J	2.00	50.0	4/22/2010 11:42:45 PM
Selenium	2.23	µg/L	J	1.00	10.0	4/22/2010 11:42:45 PM
Silver	ND	µg/L		1.00	10.0	4/22/2010 11:42:45 PM
Thallium	ND	µg/L		0.200	5.50	4/22/2010 11:42:45 PM
Vanadium	ND	µg/L		1.00	25.0	4/22/2010 11:42:45 PM
Zinc	7.05	µg/L	J	3.00	10.0	4/22/2010 11:42:45 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 4:10:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 4:10:00 PM
Benzene	0.9	µg/L	J	0.13	1.0	4/15/2010 4:10:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 4:10:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 4:10:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 4:10:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 4:10:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 4:10:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 4:10:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 4:10:00 PM
Chlorobenzene	5.3	µg/L		0.18	3.0	4/15/2010 4:10:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 4:10:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 4:10:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 4:10:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 4:10:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 4:10:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 4:10:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 4:10:00 PM
1,2-Dichlorobenzene	0.8	µg/L	J	0.45	5.0	4/15/2010 4:10:00 PM
1,4-Dichlorobenzene	6.7	µg/L		0.29	1.0	4/15/2010 4:10:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-06A
Client Sample ID:	MW-7C	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 11:40:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 4:10:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 4:10:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 4:10:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 4:10:00 PM
cis-1,2-Dichloroethene	2.6	µg/L	J	0.23	5.0	4/15/2010 4:10:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 4:10:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 4:10:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 4:10:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 4:10:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 4:10:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 4:10:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 4:10:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 4:10:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 4:10:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 4:10:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 4:10:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 4:10:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 4:10:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 4:10:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 4:10:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 4:10:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 4:10:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 4:10:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 4:10:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 4:10:00 PM
Vinyl chloride	0.3	µg/L	J	0.22	1.0	4/15/2010 4:10:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 4:10:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 4:10:00 PM
Surr: 1,2-Dichloroethane-d4	104	%REC			80-120	4/15/2010 4:10:00 PM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	4/15/2010 4:10:00 PM
Surr: Dibromofluoromethane	104	%REC			80-120	4/15/2010 4:10:00 PM
Surr: Toluene-d8	102	%REC			88-110	4/15/2010 4:10:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	5,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-07A
Client Sample ID:	MW-10	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 10:46:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/22/2010 11:48:40 PM
Arsenic	1.19	µg/L	J	1.00	10.0	4/22/2010 11:48:40 PM
Barium	106	µg/L		1.00	100	4/22/2010 11:48:40 PM
Beryllium	ND	µg/L		0.200	1.00	4/22/2010 11:48:40 PM
Cadmium	ND	µg/L		0.200	1.00	4/22/2010 11:48:40 PM
Chromium	ND	µg/L		1.00	10.0	4/22/2010 11:48:40 PM
Cobalt	ND	µg/L		1.00	10.0	4/22/2010 11:48:40 PM
Copper	ND	µg/L		1.00	10.0	4/22/2010 11:48:40 PM
Lead	ND	µg/L		0.200	10.0	4/22/2010 11:48:40 PM
Nickel	3.91	µg/L	J	2.00	50.0	4/22/2010 11:48:40 PM
Selenium	1.47	µg/L	J	1.00	10.0	4/22/2010 11:48:40 PM
Silver	ND	µg/L		1.00	10.0	4/22/2010 11:48:40 PM
Thallium	ND	µg/L		0.200	5.50	4/22/2010 11:48:40 PM
Vanadium	ND	µg/L		1.00	25.0	4/22/2010 11:48:40 PM
Zinc	6.72	µg/L	J	3.00	10.0	4/22/2010 11:48:40 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 4:43:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 4:43:00 PM
Benzene	0.9	µg/L	J	0.13	1.0	4/15/2010 4:43:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 4:43:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 4:43:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 4:43:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 4:43:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 4:43:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 4:43:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 4:43:00 PM
Chlorobenzene	2.1	µg/L	J	0.18	3.0	4/15/2010 4:43:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 4:43:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 4:43:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 4:43:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 4:43:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 4:43:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 4:43:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 4:43:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 4:43:00 PM
1,4-Dichlorobenzene	4.0	µg/L		0.29	1.0	4/15/2010 4:43:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-07A
Client Sample ID:	MW-10	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 10:46:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 4:43:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 4:43:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 4:43:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 4:43:00 PM
cis-1,2-Dichloroethene	3.5	µg/L	J	0.23	5.0	4/15/2010 4:43:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 4:43:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 4:43:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 4:43:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 4:43:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 4:43:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 4:43:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 4:43:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 4:43:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 4:43:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 4:43:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 4:43:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 4:43:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 4:43:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 4:43:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 4:43:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 4:43:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 4:43:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 4:43:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 4:43:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 4:43:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 4:43:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 4:43:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 4:43:00 PM
Surr: 1,2-Dichloroethane-d4	106	%REC			80-120	4/15/2010 4:43:00 PM
Surr: 4-Bromofluorobenzene	104	%REC			86-115	4/15/2010 4:43:00 PM
Surr: Dibromofluoromethane	106	%REC			80-120	4/15/2010 4:43:00 PM
Surr: Toluene-d8	101	%REC			88-110	4/15/2010 4:43:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	11,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-08A
Client Sample ID:	HAIRE	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 9:45:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/23/2010 12:06:12 AM
Arsenic	ND	µg/L		1.00	10.0	4/23/2010 12:06:12 AM
Barium	64.9	µg/L	J	1.00	100	4/23/2010 12:06:12 AM
Beryllium	ND	µg/L		0.200	1.00	4/23/2010 12:06:12 AM
Cadmium	ND	µg/L		0.200	1.00	4/23/2010 12:06:12 AM
Chromium	ND	µg/L		1.00	10.0	4/23/2010 12:06:12 AM
Cobalt	ND	µg/L		1.00	10.0	4/23/2010 12:06:12 AM
Copper	112	µg/L		1.00	10.0	4/23/2010 12:06:12 AM
Lead	3.63	µg/L	J	0.200	10.0	4/23/2010 12:06:12 AM
Nickel	ND	µg/L		2.00	50.0	4/23/2010 12:06:12 AM
Selenium	1.02	µg/L	J	1.00	10.0	4/23/2010 12:06:12 AM
Silver	ND	µg/L		1.00	10.0	4/23/2010 12:06:12 AM
Thallium	ND	µg/L		0.200	5.50	4/23/2010 12:06:12 AM
Vanadium	ND	µg/L		1.00	25.0	4/23/2010 12:06:12 AM
Zinc	45.8	µg/L		3.00	10.0	4/23/2010 12:06:12 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 5:15:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 5:15:00 PM
Benzene	ND	µg/L		0.13	1.0	4/15/2010 5:15:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 5:15:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 5:15:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 5:15:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 5:15:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 5:15:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 5:15:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 5:15:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/15/2010 5:15:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 5:15:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 5:15:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 5:15:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 5:15:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 5:15:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 5:15:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 5:15:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 5:15:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/15/2010 5:15:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-08A
Client Sample ID:	HAIRE	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 9:45:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 5:15:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 5:15:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 5:15:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 5:15:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/15/2010 5:15:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 5:15:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 5:15:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 5:15:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 5:15:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 5:15:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 5:15:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 5:15:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 5:15:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 5:15:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 5:15:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 5:15:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 5:15:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 5:15:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 5:15:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 5:15:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 5:15:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 5:15:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 5:15:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 5:15:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 5:15:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 5:15:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 5:15:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 5:15:00 PM
Surr: 1,2-Dichloroethane-d4	101	%REC			80-120	4/15/2010 5:15:00 PM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	4/15/2010 5:15:00 PM
Surr: Dibromofluoromethane	103	%REC			80-120	4/15/2010 5:15:00 PM
Surr: Toluene-d8	99.9	%REC			88-110	4/15/2010 5:15:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	1,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-09A
Client Sample ID:	MW-10 DUP	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 10:46:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/26/2010 8:28:23 PM
Arsenic	1.61	µg/L	J	1.00	10.0	4/26/2010 8:28:23 PM
Barium	107	µg/L		1.00	100	4/26/2010 8:28:23 PM
Beryllium	ND	µg/L		0.200	1.00	4/26/2010 8:28:23 PM
Cadmium	ND	µg/L		0.200	1.00	4/26/2010 8:28:23 PM
Chromium	ND	µg/L		1.00	10.0	4/26/2010 8:28:23 PM
Cobalt	1.02	µg/L	J	1.00	10.0	4/26/2010 8:28:23 PM
Copper	ND	µg/L		1.00	10.0	4/26/2010 8:28:23 PM
Lead	ND	µg/L		0.200	10.0	4/26/2010 8:28:23 PM
Nickel	4.30	µg/L	J	2.00	50.0	4/26/2010 8:28:23 PM
Selenium	1.73	µg/L	J	1.00	10.0	4/26/2010 8:28:23 PM
Silver	ND	µg/L		1.00	10.0	4/29/2010 2:14:55 AM
Thallium	ND	µg/L		0.200	5.50	4/26/2010 8:28:23 PM
Vanadium	ND	µg/L		1.00	25.0	4/26/2010 8:28:23 PM
Zinc	6.38	µg/L	J	3.00	10.0	4/29/2010 2:14:55 AM

NOTES:
Matrix spike recovery for Silver did not meet REIC control criteria due to matrix interference.

VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 5:48:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 5:48:00 PM
Benzene	0.9	µg/L	J	0.13	1.0	4/15/2010 5:48:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 5:48:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 5:48:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 5:48:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 5:48:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 5:48:00 PM
Carbon disulfide	1.4	µg/L	J	1.27	100	4/15/2010 5:48:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 5:48:00 PM
Chlorobenzene	2.2	µg/L	J	0.18	3.0	4/15/2010 5:48:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 5:48:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 5:48:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 5:48:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 5:48:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 5:48:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 5:48:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 5:48:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-09A
Client Sample ID:	MW-10 DUP	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 10:46:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 5:48:00 PM
1,4-Dichlorobenzene	4.0	µg/L		0.29	1.0	4/15/2010 5:48:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 5:48:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 5:48:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 5:48:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 5:48:00 PM
cis-1,2-Dichloroethene	3.4	µg/L	J	0.23	5.0	4/15/2010 5:48:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 5:48:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 5:48:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 5:48:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 5:48:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 5:48:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 5:48:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 5:48:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 5:48:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 5:48:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 5:48:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 5:48:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 5:48:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 5:48:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 5:48:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 5:48:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 5:48:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 5:48:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 5:48:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 5:48:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 5:48:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 5:48:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 5:48:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 5:48:00 PM
Surr: 1,2-Dichloroethane-d4	105	%REC			80-120	4/15/2010 5:48:00 PM
Surr: 4-Bromofluorobenzene	101	%REC			86-115	4/15/2010 5:48:00 PM
Surr: Dibromofluoromethane	104	%REC			80-120	4/15/2010 5:48:00 PM
Surr: Toluene-d8	101	%REC			88-110	4/15/2010 5:48:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	5,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-09X
Client Sample ID:	MW-10 DUP MS	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 10:46:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	4,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-09Y
Client Sample ID:	MW-10 DUP MSD	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 10:46:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	5,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-10A
Client Sample ID:	TRIP BLANK	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**			
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 12:54:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 12:54:00 PM
Benzene	ND	µg/L		0.13	1.0	4/15/2010 12:54:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 12:54:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 12:54:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 12:54:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 12:54:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 12:54:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 12:54:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 12:54:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/15/2010 12:54:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 12:54:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 12:54:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 12:54:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 12:54:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 12:54:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 12:54:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 12:54:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 12:54:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/15/2010 12:54:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 12:54:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 12:54:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 12:54:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 12:54:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/15/2010 12:54:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 12:54:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 12:54:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 12:54:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 12:54:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 12:54:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 12:54:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 12:54:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 12:54:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 12:54:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 12:54:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 12:54:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 12:54:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-10A
Client Sample ID:	TRIP BLANK	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**			
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 12:54:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 12:54:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 12:54:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 12:54:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 12:54:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 12:54:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 12:54:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 12:54:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 12:54:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 12:54:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 12:54:00 PM
Surr: 1,2-Dichloroethane-d4	100	%REC			80-120	4/15/2010 12:54:00 PM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	4/15/2010 12:54:00 PM
Surr: Dibromofluoromethane	102	%REC			80-120	4/15/2010 12:54:00 PM
Surr: Toluene-d8	101	%REC			88-110	4/15/2010 12:54:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REIC

REI Consultants, Inc.
225 Industrial Park Rd.
P.O. Box 286, Beaver, WV 25813
Phone: 304-255-2500 or 800-999-0105
FAX: 304-255-2572
e-mail: rlabs@reiclabs.com

CHAIN OF CUSTODY RECORD NO. 287166

CLIENT: Macon Co Dept of SWM
ADDRESS: 109 Sierra Drive
CITY/STATE/ZIP: Franklin N.C 28734
BILL TO:
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON: Chris Stahl
TELEPHONE #: 828-439-2100
FAX #:
E-MAIL ADDRESS:
SITE ID & STATE: Old Franklin L.F/N.C
PROJECT ID: Old Franklin Landfill
SAMPLER: McBride/Farley/Kesterson

SAMPLE LOG AND ANALYSIS REQUEST

TURNAROUND TIME REQUIREMENTS
REGULAR: ✓
*RUSH: ___ 5-Day ___ 3-Day ___ 2-Day ___ 1-Day
*Rush work needs prior Laboratory approval and will include surcharges

PRESERVATIVES
0 No Preservative
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

PRESERVATIVE CODES — NOTE PRESERVATIVES →

ANALYSIS REQUESTED & METHOD: N.C Appendix I; TSS; N.C Appendix I VOCs

SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MATRIX	SAMPLE COMP / GRAB	N.C Appendix I	TSS	N.C Appendix I VOCs	COMMENTS
MW-1	6	4-13-10 1208	H2O	Grab	X	X		Analyze Dis Metals For Any total Metal detections
MW-3		1256						
MW-6		0915						
MW-6CR		0930						
MW-7		1119						
MW-7C		1140						
MW-10		1046						
Haire		0945						
MW-10 Dup	18	1046						
Trip Blank #3	1-VOA						X	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
R Farley	4-15-10 0945	[illegible]	4-15-10 945				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Temperature Upon Arrival 4.0 °C	☐ FAX Results	☐ Email Results	

APPENDIX D:

Macon County Solid Waste Authority

Old Franklin Landfill

Summary of Historical Results

HISTORICAL ANALYTICAL RESULTS

MW-1

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Apr-02	Apr-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-07	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,1-Dichloroethane	70	5	2.6	2.7	NS	NS	NS	*	*	*	*	*	*	*	*	2.9	*	*
1,2-Dichlorobenzene	24	5	*	*	*	*	*	*	*	*	*	*	*	*	*	1.0	*	*
1,2-Dichloroethane	0.38	1	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
1,4-Dichlorobenzene	1.4	1	8.9	10	NS	NS	NS	12.6	12.2	14.1	13.9	11.9	12.5	13.3	13.4	10.8	12.1	12.3
Acetone	700	100	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Benzene	1	1	4.3	4.3	NS	NS	NS	3.7	3.8	3.4	3.1	4.6	4.0	4.7	5.0	4.3	4.8	3.9
Carbon Disulfide	700	100	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	1	1	NS	NS	NS	*	*	*	*	*	4.8	5.6	4.2	3.4	3.2	*
cis-1,2-Dichloroethene	70	5	15	17	NS	NS	NS	14.7	15.4	16.2	15.4	15.0	14.5	14.4	14.0	12.4	13.1	13.3
Dichlorodifluoromethane	1400	NA	*	*	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	*	*	*	*
Methylene Chloride	4.6	1	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Tetrachloroethene (PCE)	0.7	1.0	2.9	3.1	NS	NS	NS	2.1	*	*	2.0	2.2	2.0	2.4	1.8	1.5	1.6	1.7
Toluene	1000	1	2.9	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Trichloroethene (TCE)	2.8	1.0	3.2	2.7	NS	NS	NS	2.3	2.3	*	2.0	2.4	2.1	2.3	1.9	1.6	1.8	1.8
Trichlorofluoromethane	2100	1	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Vinyl Chloride	0.015	1	2.2	1.8	NS	NS	NS	1.1	1.4	*	1.3	1.1	*	1.4		1.0	*	*
METALS	**NC 2L**	**SWSL**	**Apr-02**	**Apr-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-07**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	*	*	NS	NS	NS	*	*	*	*		*	*	*	*	*	*
Arsenic	50	10	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	250	280	NS	NS	NS	*	*	*	*	*	636	273	309	501	305	268
Cadmium	1.75	1	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	1.3	*	*
Chromium	50	10	*	17	NS	NS	NS	*	*	*	*	*	14.9	*	14.7	55.4	*	*
Copper	1000	10	*	10	NS	NS	NS	*	*	*	*	*	17.7	*	*	22.8	*	10.2
Lead	15	10	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Nickel	100	50	*	21	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Selenium	50	10	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Vanadium	NL	20	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	35.6	*	*
Zinc	1050	10	30	33	NS	NS	NS	*	*	*	*	*	79	*	11.7	28.3	*	18.9

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-1

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,1-Dichloroethane	7	5	*
1,2-Dichlorobenzene	20	5	*
1,2-Dichloroethane	0.4	1	*
1,4-Dichlorobenzene	6	1	12.9
Acetone	6000	100	*
Benzene	1	1	3.7
Carbon Disulfide	700	100	*
Chlorobenzene	50	3	3.4
cis-1,2-Dichloroethene	70	5	13.6
Dichlorodifluoromethane	1000	5	*
Methylene Chloride	5	1	*
Tetrachloroethene (PCE)	0.7	1	*
Toluene	600	1	*
Trichloroethene (TCE)	3	1	1.5
Trichlorofluoromethane	2000	1	*
Vinyl Chloride	0.03	1	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	*
Arsenic	10	10	*
Barium	700	100	261
Cadmium	2	1	*
Chromium	10	10	*
Copper	1000	10	*
Lead	15	10	*
Nickel	100	50	*
Selenium	20	10	*
Vanadium	NL	25	*
Zinc	1000	10	*

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-2

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Apr-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-07	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
Benzene	1	1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Carbon Disulfide	700	100	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Apr-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-07**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Arsenic	50	10	NS	NS	NS	82	NS	NS	NS	*	NS	NS	NS	189	NS	NS	NS	175	NS
Barium	2000	100	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Cadmium	1.75	1	NS	NS	NS	7.2	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	10.6	NS
Chromium	50	10	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Copper	1000	10	NS	NS	NS	7.1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	10.1	NS
Lead	15	10	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Nickel	100	50	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Selenium	50	10	NS	NS	NS	11	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Vanadium	NL	20	NS	NS	NS	23	NS	NS	NS	*	NS	NS	NS	15.7	NS	NS	NS	34.3	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-2

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
Benzene	1	1	NS
Carbon Disulfide	700	100	NS
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	NS
Arsenic	10	10	NS
Barium	700	100	NS
Cadmium	2	1	NS
Chromium	10	10	NS
Copper	1000	10	NS
Lead	15	10	NS
Nickel	100	50	NS
Selenium	20	10	NS
Vanadium	NL	25	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-3

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Apr-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-07	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,2-Dichlorobenzene	24	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.9	*	*
1,4-Dichlorobenzene	1.4	1	*	*	*	*	*	*	*	*	1.3	1.6	3.1	1.8	2.1	2.5	1.0	*	2.5
Acetone	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benzene	1	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.8	12.1	12.3
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.3	4.8	*
Chloroethane	2800	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.4	3.2	*
Vinyl Chloride	0.015	1	*	5.4	*	*	*	*	*	*	*	*	*	*	*	*	12.4	13.1	*
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Apr-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-07**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Arsenic	10	10	*	6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	390	560	870	621	966	*	1940	6260	2580	266	360	6330	1350	625	1.5	1.6	625
Beryllium	NL	1	*	*	*	*	*	*	*	4.3	1.3	*	*	3.9	*	*	*	*	*
Cadmium	1.75	1	2.8	*	7.3	4.6	6.3	1.6	9.3	26.2	4.9	*	*	23.6	2.00	1.4	1.6	1.8	1.4
Chromium	50	10	16	34	64	16.3	*	*	14.8	114	20.3	*	*	104	28.3	*	*	*	*
Cobalt	NL	10	37	42	44	29.8	43	23.7	64.3	215	74.5	16.1	14.1	191	41.0	20.4	1.0	*	20.4
Copper	1000	10	32	48	88	*	*	*	*	*	184	*	*	457	81.1	29	*	*	29
Lead	15	10	7.5	10	24	*	14.7	*	18.5	82.6	26.1	*	*	108	23.8	*	*	*	*
Nickel	100	50	16	26	36	*	*	*	*	116	*	*	*	109	*	*	501	305	*
Selenium	50	10	7.4	*	*	*	*	*	*	*	*	*	*	*	*	*	1.3	*	*
Vanadium	NL	20	16	31	71	*	*	*	44	279	74.9	*	*	190	53.7	*	55.4	*	*
Zinc	1050	10	63	88	160	*	*	*	82.6	616	103	*	12.8	506	84.5	21.5	22.8	*	21.5

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-3

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,2-Dichlorobenzene	20	5	*
1,4-Dichlorobenzene	6	1	2.5
Acetone	6000	100	*
Benzene	1	1	*
Carbon Disulfide	700	100	*
Chlorobenzene	50	3	*
Chloroethane	3000	10	*
cis-1,2-Dichloroethene	70	5	*
Vinyl Chloride	0.03	1	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	*
Arsenic	10	10	*
Barium	700	100	334
Beryllium	NL	1	*
Cadmium	2	1	1.6
Chromium	10	10	*
Cobalt	NL	10	21.4
Copper	1000	10	18.9
Lead	15	10	*
Nickel	100	50	*
Selenium	20	10	*
Vanadium	NL	25	*
Zinc	1000	10	14.6

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-4

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,1,1-Trichloroethane	200	1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
1,1-Dichloroethane	70	5	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
1,4-Dichlorobenzene	1.4	1	NS	NS	NS	11	NS	NS	NS	13.3	NS	NS	NS	13.6	NS	NS	NS	10.5	NS
Acetone	700	100	NS	NS	NS	790	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Benzene	1	1	NS	NS	NS	5.4	NS	NS	NS	5.7	NS	NS	NS	3.8	NS	NS	NS	3.8	NS
Carbon Disulfide	700	100	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Chlorobenzene	50	3	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Chloroethane	2800	10	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
cis-1,2-Dichloroethene	70	5	NS	NS	NS	21	NS	NS	NS	21.2	NS	NS	NS	15.9	NS	NS	NS	13.0	NS
Methylene Chloride	4.6	1	NS	NS	NS	9.5	NS	NS	NS	5.4	NS	NS	NS	1.2	NS	NS	NS	1.5	NS
Tetrachloroethene (PCE)	0.7	1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Trichloroethene (TCE)	2.8	1	NS	NS	NS	*	NS	NS	NS	1.7	NS	NS	NS	1.5	NS	NS	NS	*	NS
Vinyl Chloride	0.015	1	NS	NS	NS	*	NS	NS	NS	1.8	NS	NS	NS	*	NS	NS	NS	*	NS
Xylenes total	530	3	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	1.6	NS	NS	NS	*	NS
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	NS	NS	NS	5.2	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Arsenic	50	10	NS	NS	NS	5.8	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Barium	2000	100	NS	NS	NS	670	NS	NS	NS	957	NS	NS	NS	903	NS	NS	NS	1030	NS
Cadmium	1.75	1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Chromium	50	10	NS	NS	NS	66	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Cobalt	NL	10	NS	NS	NS	33	NS	NS	NS	115	NS	NS	NS	86.7	NS	NS	NS	56.2	NS
Copper	1000	10	NS	NS	NS	180	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Lead	15	10	NS	NS	NS	22	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Nickel	100	50	NS	NS	NS	35	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Selenium	50	10	NS	NS	NS	6.9	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Silver	18	10	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Vanadium	NL	20	NS	NS	NS	87	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Zinc	1050	10	NS	NS	NS	240	NS	NS	NS	*	NS	NS	NS	77.8	NS	NS	NS	29.0	NS

NOTES:

1. **** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)***
2. ***NS – Location Not Sampled***
3. ***NL – Constituent does not have a NC2L Standard***
4. ***Constituents that exceed the NC2L Standard are Highlighted in Red***
5. ***DRY – Well was dry during sampling event***
6. ***All constituents measured in parts per billion (ppb)***
7. ***Only compounds detected above the laboratory PQL or SWSL are listed***
8. ***N/A – Not Applicable***

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-4

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,1,1-Trichloroethane	7	5	NS
1,1-Dichloroethane	0.4	1	NS
1,4-Dichlorobenzene	6	1	NS
Acetone	6000	100	NS
Benzene	1	1	NS
Carbon Disulfide	700	100	NS
Chlorobenzene	50	3	NS
Chloroethane	3000	10	NS
cis-1,2-Dichloroethene	70	5	NS
Methylene Chloride	5	1	NS
Tetrachloroethene (PCE)	0.7	1	NS
Trichloroethene (TCE)	3	1	NS
Vinyl Chloride	0.03	1	NS
Xylenes total	500	5	NS
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	NS
Arsenic	10	10	NS
Barium	700	100	NS
Cadmium	2	1	NS
Chromium	10	10	NS
Cobalt	NL	10	NS
Copper	1000	10	NS
Lead	15	10	NS
Nickel	100	50	NS
Selenium	20	10	NS
Silver	20	10	NS
Vanadium	NL	25	NS
Zinc	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD HIGHLANDS LANDFILL: PERMIT NO: 57-02

HIGHLANDS, NORTH CAROLINA

MW-5

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,1-Dichloroethane	70	5	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
1,2-Dichloroethane	0.38	1	NS	NS	NS	*	NS	NS	NS	2.1	NS	NS	NS	*	NS	NS	NS	*	NS
1,4-Dichlorobenzene	1.4	1	NS	NS	NS	29	NS	NS	NS	22	NS	NS	NS	23.5	NS	NS	NS	17.6	NS
Acetone	700	100	NS	NS	NS	190	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Benzene	1	1	NS	NS	NS	13	NS	NS	NS	10.4	NS	NS	NS	13.8	NS	NS	NS	6.5	NS
Carbon Disulfide	700	100	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Chloroethane	2800	10	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
cis-1,2-Dichloroethene	70	5	NS	NS	NS	32	NS	NS	NS	21.5	NS	NS	NS	21.6	NS	NS	NS	16.7	NS
Dichlorodifluoromethane	1400	NA	NS	NS	NS	*	NS	NS	NS	NA	NS	NS	NS	NA	NS	NS	NS	*	NS
Methylene Chloride	4.6	1	NS	NS	NS	21	NS	NS	NS	*	NS	NS	NS	1.1	NS	NS	NS	6.9	NS
Tetrachloroethene (PCE)	0.7	1	NS	NS	NS	5.4	NS	NS	NS	*	NS	NS	NS	3.2	NS	NS	NS	1.5	NS
Toluene	1000	1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
trans-1,2-Dichloroethene	100	5	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Trichloroethene (TCE)	2.8	1	NS	NS	NS	*	NS	NS	NS	2	NS	NS	NS	3.6	NS	NS	NS	2.2	NS
Vinyl Chloride	0.015	1	NS	NS	NS	*	NS	NS	NS	1.1	NS	NS	NS	*	NS	NS	NS	*	NS
Xylenes total	530	3	NS	NS	NS	8.5	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Arsenic	50	10	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Barium	2000	100	NS	NS	NS	480	NS	NS	NS	1280	NS	NS	NS	493	NS	NS	NS	363	NS
Cadmium	1.75	1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Chromium	50	10	NS	NS	NS	24	NS	NS	NS	10.5	NS	NS	NS	*	NS	NS	NS	8	NS
Cobalt	NL	10	NS	NS	NS	89	NS	NS	NS	94.3	NS	NS	NS	35.7	NS	NS	NS	15.5	NS
Copper	1000	10	NS	NS	NS	120	NS	NS	NS	*	NS	NS	NS	39.5	NS	NS	NS	39.4	NS
Lead	15	10	NS	NS	NS	13	NS	NS	NS	24.4	NS	NS	NS	*	NS	NS	NS	*	NS
Nickel	100	50	NS	NS	NS	23	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Selenium	50	10	NS	NS	NS	16	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Vanadium	NL	20	NS	NS	NS	22	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Zinc	1050	10	NS	NS	NS	110	NS	NS	NS	120	NS	NS	NS	48.8	NS	NS	NS	45.7	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD HIGHLANDS LANDFILL: PERMIT NO: 57-02

HIGHLANDS, NORTH CAROLINA

MW-5

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,1-Dichloroethane	7	5	NS
1,2-Dichloroethane	0.4	1	NS
1,4-Dichlorobenzene	6	1	NS
Acetone	6000	100	NS
Benzene	1	1	NS
Carbon Disulfide	700	100	NS
Chloroethane	3000	10	NS
cis-1,2-Dichloroethene	70	5	NS
Dichlorodifluoromethane	1000	5	NS
Methylene Chloride	5	1	NS
Tetrachloroethene (PCE)	0.7	1	NS
Toluene	600	1	NS
trans-1,2-Dichloroethene	100	5	NS
Trichloroethene (TCE)	3	1	NS
Vinyl Chloride	0.03	1	NS
Xylenes total	500	5	NS
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	NS
Arsenic	10	10	NS
Barium	700	100	NS
Cadmium	2	1	NS
Chromium	10	10	NS
Cobalt	NL	10	NS
Copper	1000	10	NS
Lead	15	10	NS
Nickel	100	50	NS
Selenium	20	10	NS
Vanadium	NL	25	NS
Zinc	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-6

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,1-Dichloroethane	70	5	2.8	2.5	2.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1,2-Dichloroethane	0.38	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1,4-Dichlorobenzene	1.4	1	13	12	11	*	*	*	9.2	5.6	*	*	12.2	12.7	16.9	10.1	12.6	15.8	11.8
Benzene	1	1	7.8	7	6.2	*	*	*	*	*	*	*	2.1	2.0	3.2	1.4	3.1	3.8	2.2
Chloroethane	2800	10	1.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	17	17	14	*	*	*	*	*	*	*	5.4	6.0	9.2	6.7	8.7	10.0	7.4
Methylene Chloride	4.6	1	24	25	21	*	*	*	*	*	*	*	7.2	7.4	11.6	5.7	10.6	12.2	7.7
Tetrachloroethene (PCE)	0.7	1	3.8	3.9	3	*	*	*	1.3	*	*	*	*	*	1.5	*	*	1.1	1
Trichloroethene (TCE)	2.8	1	2.3	2.1	2.1	*	*	*	*	*	*	*	*	*	1.1	*	*	1.0	*
Xylenes total	530	3	9	9.8	7.4	*	*	*	*	*	*	*	*	3.7	7.3	*	4.8	5.8	1.6
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Arsenic	50	10	*	*	*	36	6.1	7.1	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	3500	12000	10000	130	1100	3400	1630	1520	709	862	639	707	317	314	371	291	253
Beryllium	NL	10	2.2	5.2	5.1	*	*	*	*	*	*		*	*	*	*	*	*	*
Cadmium	1.75	1	*	*	*	*	*	21	*	*	*	*	*	*	*	*	*	*	*
Chromium	50	10	190	330	300	*	89	200	133	*	*		*	*	*	*	*	*	*
Cobalt	NL	10	170	440	370	*	44	180	85.6	47.6	12.9	16.6	*	12.4	12.7	*	14.8	13.6	*
Copper	1000	10	440	780	930	4.9	230	550	307	*	*	*	*	26.1	*	*	21.5	*	*
Lead	15	10	88	230	250	*	34	110	42	23.3	*	11.8	*	10.9	*	*	*	*	*
Nickel	100	50	100	190	270	*	58	100	57.4	*	*	*	*	*	*	*	*	*	*
Selenium	50	10	*	*	*	5.5	*	*	*	*	*	*	*	*	*	*	*	*	*
Silver	18	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Vanadium	NL	20	260	460	490	*	120	290	191	*	*	*	*	*	*	*	*	*	*
Zinc	1050	10	840	1500	1300	12	320	790	403	*	51	*	*	32.5	11.4	18.1	45.1	22.7	*

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-6

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,1-Dichloroethane	0.4	1	*
1,2-Dichloroethane	20	5	*
1,4-Dichlorobenzene	6	1	*
Benzene	1	1	*
Chloroethane	3000	10	*
cis-1,2-Dichloroethene	70	5	*
Methylene Chloride	5	1	*
Tetrachloroethene (PCE)	0.7	1	*
Trichloroethene (TCE)	3	1	*
Xylenes total	500	5	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	*
Arsenic	10	10	*
Barium	700	100	283
Beryllium	NL	1	*
Cadmium	2	1	*
Chromium	10	10	*
Cobalt	NL	10	*
Copper	1000	10	*
Lead	15	10	*
Nickel	100	50	*
Selenium	20	10	*
Silver	20	10	*
Vanadium	NL	25	*
Zinc	1000	10	11.2

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-6A

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Apr-08	Apr-09	Oct-09	NC 2L	SWSL	Apr-10
1,4-Dichlorobenzene	1.4	1	8.2	NS	NS	NS	9.5	NS	NS	NS	8.6	NS	NS	NS	11.2	NS	6	1	NS
Acetone	700	100	12	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	6000	100	NS
Benzene	1	1	6.3	NS	NS	NS	5.6	NS	NS	NS	6.0	NS	NS	NS	6.2	NS	1	1	NS
cis-1,2-Dichloroethene	70	5	16	NS	NS	NS	17.3	NS	NS	NS	14.6	NS	NS	NS	16.4	NS	70	5	NS
Methylene Chloride	4.6	1	11	NS	NS	NS	5.2	NS	NS	NS	5.1	NS	NS	NS	2.5	NS	5	1	NS
Tetrachoroethane	0.7	1	*	NS	NS	NS	*	NS	NS	NS	1.6	NS	NS	NS	1.3	NS	0.7	1	NS
Trichloroethene	2.8	1	*	NS	NS	NS	1.7	NS	NS	NS	1.6	NS	NS	NS	1.7	NS	3	1	NS
Xylenes	530	3	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	1.2	NS	500	5	NS
METALS	**NC 2L**	**SWSL**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Apr-08**	**Apr-09**	**Oct-09**	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	36	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NL	6	NS
Barium	2000	100	280	NS	NS	NS	*	NS	NS	NS	281	NS	NS	NS	288	NS	700	100	NS
Chromium	50	10	6.8	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	10	10	NS
Cobalt	NL	10	14	NS	NS	NS	14.5	NS	NS	NS	14.5	NS	NS	NS	14.3	NS	NL	10	NS
Copper	1000	10	17	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	1000	10	NS
Nickel	100	50	19	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	100	50	NS
Vanadium	NL	20	7	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NL	25	NS
Zinc	1050	10	58	NS	NS	NS	*	NS	NS	NS	92.5	NS	NS	NS	12.5	NS	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-6C

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,1-Dichloroethane	70	5.0	2.2	2.3	2.3	*	*	*	*	*	*	*	*	*	NS	*	1.6	*	*
1,4-Dichlorobenzene	1.4	1	4	4.2	3.5	8.4	15	8.5	12.3	11	12.1	11.8	11.0	11.6	NS	7.6	7.4	10.1	12.7
2-Butanone	4200	100	*	*	*	*	*	*	*	*	*	*	*	*	NS	244	*	*	*
Acetone	700	100	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Benzene	1	1	4	3.8	4.2	*	8.2	*	5.5	5.8	5.6	5.1	6.5	5.4	NS	1.3	1.5	2.2	2.6
Carbon Disulfide	700	100	*	*	9.9	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Chloroethane	2800	10	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
cis-1,2-Dichloroethene	70	5	9.4	8.6	10	14	27	15	14.2	16.7	18.4	16.8	15.8	15.3	NS	10.5	10.8	13.5	14.9
Methylene chloride	4.6	1.0	*	*	*	10	8.1	*	*	*	*	*	*	*	NS	1.4	*	*	*
Tetrachloroethene (PCE)	0.7	1	1.6	*	1.1	*	*	*	2.1	*	*	1.3	1.5	1.4	NS	*	*	*	1.1
Trichloroethene (TCE)	2.8	1.0	1.4	1.4	1.1	*	*	*	2.0	1.8	*	1.6	2.0	1.8	NS	1.2	1.1	1.5	1.6
Xylenes total	530	3	3.4	3.6	3.5	5.4	*	*	*	*	*	*	*	3.0	NS	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Arsenic	50	10	8.4	13	16	*	27	20	16.7	11.1	13.3	13.7	11.7	12.9	NS	*	*	*	*
Barium	2000	100	61	61	72	11	140	120	*	*	*	*	*	171	NS	*	*	*	224
Cadmium	1.75	1	*	*	*	*	*	3.3	*	*	*	*	*	*	NS	*	*	*	*
Chromium	50	10	6.4	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Cobalt	NL	10	*	*	*	*	*	*	*	*	*	*	*	*	NS	10.5	*	*	14.2
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Selenium	50	10	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Zinc	1050	10	23	14	11	11	*	*	*	*	*	*	*	47.7	NS	*	*	*	*

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-6C

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,1-Dichloroethane	7	5	*
1,4-Dichlorobenzene	6	1	11.6
2-Butanone	4000	10	*
Acetone	6000	100	*
Benzene	1	1	1.6
Carbon Disulfide	700	100	*
Chloroethane	3000	10	*
cis-1,2-Dichloroethene	70	5	13.3
Methylene chloride	5	1	*
Tetrachloroethene (PCE)	0.7	1	*
Trichloroethene (TCE)	3	1	1.2
Xylenes total	500	5	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	*
Arsenic	10	10	*
Barium	700	100	278
Cadmium	2	1	*
Chromium	10	10	*
Cobalt	10	10	14.3
Lead	NL	10	*
Nickel	100	50	*
Selenium	20	10	*
Zinc	1000	10	*

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-7

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Apr-02	Oct-02	Apr-03	Oct-03	Oct-03 du	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,4-Dichlorobenzene	1.4	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Oct-03 du**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	*	6.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Arsenic	50	10	*	*	*	*	7.1	*	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	2,800	1,900	380	940	940	960	2,410	3,200	1,620	1,950	563	5,530	6,220	1,000	9,170	1,580	1070
Beryllium	NL	1	2.4	2	*	*	*	*	2.3	*	*	*	*	2.0	1.2	*	7.1	1.1	*
Cadmium	1.75	1	*	*	*	*	*	2.7	*	*	*	*	*	*	*	*	2.0		*
Chromium	50	10	90	93	7.7	62	65	24	171	*	26.1	*	*	*	*	*	278	38.7	*
Cobalt	NL	10	61	55	*	23	24	18	61.1	49.9	15.9	20.7	*	54.0	14.7	*	219	28.6	14.9
Copper	1000	10	190	200	16	120	130	55	281	*	*	*	*	65.3	27	13.8	524	82.3	22.2
Lead	15	10	14	19	*	10	11	9.1	19.4	11.4	*	*	*	11.4	9.5	*	68.6	*	*
Nickel	100	50	53	86	*	43	46	11	78.6	*	*	*	*	*	*	*	114	*	*
Selenuim	50	10	15	*	*	*	*	*	*	*	*	*	*	*	*	*	16.3	*	*
Silver	18	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Vanadium	NL	20	150	160	11	86	92	48	247	*	40.1	*	*	*	*	*	220	74.1	25.7
Zinc	1050	10	270	240	22	130	150	71	327	55	98	*	*	113	59.3	25.1	879	141	43.2

NOTES:

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2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-7

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,4-Dichlorobenzene	6	1	*
cis-1,2-Dichloroethene	70	5	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	*
Arsenic	10	10	*
Barium	700	100	1330
Beryllium	NL	1	*
Cadmium	2	1	*
Chromium	10	10	*
Cobalt	10	10	22.6
Copper	1000	10	26.5
Lead	NL	10	*
Nickel	100	50	*
Selenuim	20	10	*
Silver	20	10	*
Vanadium	NL	25	*
Zinc	1000	10	46.5

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-7A

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	NC 2L	SWSL	Apr-10
1,4-Dichlorobenzene	1.4	1	*	NS	NS	NS	6.7	NS	NS	NS	8.1	NS	NS	NS	8.4	NS	6	1	NS
Benzene	1	1	*	NS	NS	NS	*	NS	NS	NS	1.3	NS	NS	NS	1.5	NS	1	1	NS
Chlorobenzene	50	3	*	NS	NS	NS	*	NS	NS	NS	10.9	NS	NS	NS	18.2	NS	50	3	NS
cis-1,2-Dichloroethene	70	5	6.6	NS	NS	NS	5.2	NS	NS	NS	8.3	NS	NS	NS	9.5	NS	70	5	NS
METALS	**NC 2L**	**SWSL**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	34	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NL	6	NS
Barium	2000	100	480	NS	NS	NS	*	NS	NS	NS	540	NS	NS	NS	573	NS	700	100	NS
Cadmium	1.75	1	4.1	NS	NS	NS	1.2	NS	NS	NS	1.5	NS	NS	NS	1.6	NS	2	1	NS
Chromium	50	10	12	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	10	10	NS
Cobalt	NL	10	15	NS	NS	NS	*	NS	NS	NS	11.9	NS	NS	NS	11.9	NS	10	10	NS
Copper	1000	10	19	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	1000	10	NS
Lead	15	10	5	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NL	10	NS
Nickel	100	50	12	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	100	50	NS
Selenium	50	10	7.4	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	20	10	NS
Vanadium	NL	20	18	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NL	25	NS
Zinc	1050	10	54	NS	NS	NS	*	NS	NS	NS	20.2	NS	NS	NS	10.9	NS	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-7C

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,2-Dichlorobenzene	24	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.4	*	*
1,4-Dichlorobenzene	1.4	1	4.6	4.7	4.5	*	*	6.7	8.1	*	7.3	8.1	7.5	7.8	8.2	8.1	7.2	8.2	8.1
Benzene	1	1	*	*	*	*	*	*	1.2	1.3	1.0	1.2	1.7	1.4	1.3	1.2	1.2	1.4	1.1
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*	5.7	7.1	9.5	9.5	10.1	12.3	10.1
cis-1,2-Dichloroethene	70	5	6.5	4.8	5.4	8.2	7.1	6.6	5.4	6.6	5.2	6	7.8	7.1	6.5	6.8	6.2	7.3	5.4
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	*	*	*	6.7	*	*	*	*	*	*	*	*	*	*	*	*	*
Arsenic	50	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	410	410	410	400	460	460	*	511	573		*	438	422	435	478	468	449
Cadmium	1.75	1	*	*	*	*	*	1.4	*	*	*	*	*	*	*	*	*	*	*
Chromium	50	10	*	*	74	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cobalt	NL	10	13	13	13	14	15	16	10.6	13.3	13.8	14.9	*	13.4	11.5	11.5	16.7	13.9	13.7
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nickel	100	50	*	*	58	*	5.9	*	*	*	*	*	*	*	*	*	*	*	*
Selenium	50	10	*	13	*	7.4	8.4	6.3	*	*	*	*	*	*	*	*	*	*	*
Silver	18	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Zinc	1050	10	15	22	27	*	13	*	131	*	*	*	*	*	62.4	14.0	13.2	*	*

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-7C

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,2-Dichlorobenzene	20	5	*
1,4-Dichlorobenzene	6	1	6.7
Benzene	1	1	*
Carbon Disulfide	700	100	*
Chlorobenzene	50	3	5.3
cis-1,2-Dichloroethene	70	5	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	*
Arsenic	10	10	*
Barium	700	100	480
Cadmium	2	1	*
Chromium	10	10	*
Cobalt	NL	10	15.9
Lead	15	10	*
Nickel	100	50	*
Selenium	20	10	*
Silver	20	10	*
Zinc	1000	10	*

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-8

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Updated 2-2010

METALS	NC 2L	SWSL	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	NC 2L	SWSL	Apr-10
Arsenic	50	10	140	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	11.8	NS	10	10	NS
Barium	2000	100	6,100	NS	NS	NS	*	NS	NS	NS	224	NS	NS	NS	1160	NS	700	100	NS
Chromium	50	10	1,000	NS	NS	NS	11.3	NS	NS	NS	13.3	NS	NS	NS	154	NS	10	10	NS
Cobalt	NL	10	380	NS	NS	NS	10.6	NS	NS	NS	16.3	NS	NS	NS	77.9	NS	NL	10	NS
Copper	1000	10	2,400	NS	NS	NS	*	NS	NS	NS	30.3	NS	NS	NS	128	NS	1000	10	NS
Lead	15	10	150	NS	NS	NS	*	NS	NS	NS	13.0	NS	NS	NS	33.4	NS	15	10	NS
Nickel	100	50	690	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	139	NS	100	50	NS
Selenium	50	10	62	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	20	10	NS
Vanadium	NL	20	1,300	NS	NS	NS	*	NS	NS	NS	31.7	NS	NS	NS	224	NS	NL	25	NS
Zinc	1050	10	2,000	NS	NS	NS	*	NS	NS	NS	60.0	NS	NS	NS	285	NS	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-9

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	NC 2L	SWSL	Apr-10
1,4-Dichlorobenzene	1.4	1	*	NS	NS	NS	*	NS	NS	NS	1.9	NS	NS	NS	2.5	NS	6	1	NS
Benzene	1	1	*	NS	NS	NS	2.3	NS	NS	NS	2.2	NS	NS	NS	3.0	NS	1	1	NS
cis-1,2-Dichloroethene	70	5	5.3	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	5.4	NS	70	5	NS
METALS	**NC 2L**	**SWSL**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**	**NC 2L**	**SWSL**	**Apr-10**
Barium	2000	100	53	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	700	100	NS
Zinc	1050	10	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-10

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,4-Dichlorobenzene	1.4	1	1.6	2.7	2.6	*	*	*	5.3	5	*	5.1	*	5.0	4.9	4.9	4.0	4.8	4.5
Benzene	1	1	*	1.3	2.9	*	*	*	1.1	1.2	1.1	1.0	1.3	1.3	*	1.1	*	*	*
Carbon Disulfide	700	100	*	*	2.4	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.3	3.1	*
Chloroethane	2800	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	3.3	4.9	6.2	8	7.8	*	5.3	6.3	6.0	5.7	5.2	5.5	*	*	3.1	*	*
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Arsenic	50	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	120	120	120	95	100	880	*	*	*	*	*	111	115	119	125	124	113
Cadmium	1.75	1	*	*	*	*	*	3.5	*	*	*	*	*	*	*	*	*	*	*
Chromium	50	10	*	*	*	*	*	61	*	*	*	*	*	*	*	*	*	*	*
Cobalt	NL	10	*	*	*	*	*	19	*	*	*	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	42	*	*	*	*	*	*	*	*	*	*	*
Lead	15	10	*	*	*	*	*	17	*	*	*	*	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	26	*	*	*	*	*	*	*	*	*	*	*
Selenium	50	10	*	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Vanadium	NL	20	*	*	*	*	*	110	*	*	*	*	*	*	*	*	*	*	*
Zinc	1050	10	*	20	37	*	*	140	*	*	*	*	*	26.8	*	*	11.9	*	*

NOTES:

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3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-10

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,4-Dichlorobenzene	6	1	4
Benzene	1	1	*
Carbon Disulfide	700	100	*
Chlorobenzene	50	3	*
Chloroethane	3000	10	*
cis-1,2-Dichloroethene	70	5	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Arsenic	10	10	*
Barium	700	100	106
Cadmium	2	1	*
Chromium	10	10	*
Cobalt	NL	10	*
Copper	1000	10	*
Lead	15	10	*
Nickel	100	50	*
Selenium	20	10	*
Vanadium	NL	25	*
Zinc	1000	10	*

NOTES:

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4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

Dowdle

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,2-Dibromo-3-chloropropane (DBCP)	0.025	1	*	*	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.4	1	*	*	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	0.56	1	*	*	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
Chloroform	70	5	*	1.1	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	70	5	1.8	1.5	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
METALS	**NC 2L**	**SWSL**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Barium	2,000	100	28	27	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
Cadmium	1.75	1	*	*	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
Chromium	50	10	*	*	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
Lead	15	10	*	*	*	NS	NS	*	23.4	12.8	*	NS	NS	NS	NS	NS	NS	NS
Selenium	50	10	12	*	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
Zinc	1,050	10	2100	3200	*	NS	NS	4060	3950	4320	3220	NS	NS	NS	NS	NS	NS	NS

NOTES:

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2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Dowdle

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,2-Dibromo-3-chloropropane (DBCP)	0.04	13	NS
1,4-Dichlorobenzene	6	1	NS
Bromodichloromethane	0.6	1	NS
Chloroform	70	5	NS
cis-1,2-Dichloroethene	70	5	NS
METALS	**NC 2L**	**SWSL**	**Apr-10**
Barium	700	100	NS
Cadmium	2	1	NS
Chromium	10	10	NS
Lead	15	10	NS
Selenium	20	10	NS
Zinc	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

Haire

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
Chloroform	70	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
Barium	2,000	100	55	54	60	56	41	50	*	*	*	*	*	*	*	*	*	*	*
Copper	1,000	10	25	42	29	15	19	26	*	*	*	*	*	49.2	25.0	34.3	63.9	49.2	36.8
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Silver	17.5	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Thallium	NL	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Zinc	1,050	10	24	44	38	*	22	*	*	*	*	*	67.7	30.5	11.5	25.4	35.6	46.2	39.9

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Haire

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
Chloroform	70	5	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Barium	700	100	*
Copper	1000	10	112
Lead	15	10	*
Silver	20	10	*
Thallium	NL	5.5	*
Zinc	1000	10	45.8

NOTES:

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4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

Keener

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,4-Dichlorobenzene	1.4	1	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	0.56	1	3.2	2.7	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	70	5	51	24	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	70	5	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene (PCE)	0.7	1	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
METALS	**NC 2L**	**SWSL**	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
Arsenic	50	10	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	2000	100	15	11	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	1.75	1	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	50	10	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	15	10	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	100	10	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	50	10	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	1050	10	14	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Keener Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,4-Dichlorobenzene	6	1	NS
Bromodichloromethane	0.6	1	NS
Chloroform	70	5	NS
cis-1,2-Dichloroethene	70	5	NS
Tetrachloroethene (PCE)	0.7	1	NS
METALS	**NC 2L**	**SWSL**	**Apr-10**
Arsenic	10	10	NS
Barium	700	100	NS
Cadmium	2	1	NS
Chromium	10	10	NS
Lead	15	10	NS
Nickel	100	50	NS
Selenium	20	10	NS
Zinc	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

APPENDIX E:

Macon County Solid Waste Authority

Old Franklin Landfill

Statistical Analysis

Old Franklin Landfill

Well	Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper
MW-2	Jun-94	0.005	0.250	0.001	0.0005	0.005	0.005	0.100
MW-2	Oct-94	0.005	0.844	0.001	0.0005	0.005	0.005	0.100
MW-2	Mar-95	0.005	0.632	0.001	0.0005	0.005	0.005	0.100
MW-2	Nov-95	0.005	0.581	0.001	0.0005	0.005	0.005	0.100
MW-2	Apr-96	0.005	0.250	0.001	0.0005	0.005	0.005	0.100
MW-2	Oct-96	0.005	0.892	0.001	0.0005	0.106	0.040	0.100
MW-2	May-97	0.005	0.250	0.001	0.001	0.005	0.005	0.100
MW-2	Oct-97	0.005	0.250	0.001	0.0005	0.035	0.005	0.100
MW-2	Apr-98	0.005	0.250	0.001	0.0005	0.005	0.005	0.100
MW-2	Oct-98	0.011	0.250	0.001	0.0005	0.06	0.029	0.100
MW-2	Apr-99	0.005	0.250	0.001	0.0005	0.018	0.005	0.100
MW-2	Oct-99	0.005	2.12	0.001	0.0005	0.172	0.077	0.100
MW-2	May-00	0.005	0.250	0.001	0.0005	0.019	0.005	0.100
MW-2	Apr-01	0.005	0.250	0.001	0.0005	0.026	0.005	0.100
MW-2	Apr-03	0.005	0.250	0.001	0.0005	0.005	0.005	0.100
MW-8	Apr-03	0.140	6.10	0.001	0.0005	1.00	0.380	2.40
MW-2	Apr-05	0.005	0.250	0.001	0.0005	0.005	0.005	0.100
MW-8	Apr-05	0.005	0.250	0.001	0.0005	0.0113	0.0106	0.100
MW-2	Apr-07	0.005	0.189	0.0005	0.0005	0.005	0.005	0.005
MW-8	Apr-07	0.005	0.224	0.0005	0.0005	0.0133	0.0163	0.0303
MW-2	Apr-09	0.005	0.175	0.0005	0.0005	0.0106	0.005	0.0101
MW-8	Apr-09	0.0118	1.16	0.0005	0.0005	0.154	0.0779	0.128

PQL	0.010	0.500	0.002	0.001	0.010	0.010	0.200
SWSL	0.006	0.100	0.001	0.001	0.010	0.010	0.010
# Obs.	22	22	22	22	22	22	22
# NDs	19	12	22	21	10	15	18
% NDs	86%	55%	100%	95%	45%	68%	82%
Method	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Adjustment	Nonparametric	Nonparametric

Limit	0.140	6.10	0.002	0.001	1.79	0.380	2.40

Old Franklin Landfill

Well	Date	Lead	Nickel	Selenium	Vanadium	Zinc
MW-2	Jun-94	0.005	0.025	0.010	0.020	0.025
MW-2	Oct-94	0.005	0.025	0.010	0.020	0.025
MW-2	Mar-95	0.005	0.025	0.010	0.020	0.025
MW-2	Nov-95	0.005	0.025	0.010	0.020	0.025
MW-2	Apr-96	0.005	0.025	0.010	0.020	0.025
MW-2	Oct-96	0.005	0.025	0.010	0.145	0.143
MW-2	May-97	0.005	0.025	0.010	0.020	0.025
MW-2	Oct-97	0.005	0.025	0.010	0.020	0.106
MW-2	Apr-98	0.005	0.025	0.010	0.020	0.025
MW-2	Oct-98	0.005	0.025	0.010	0.076	0.134
MW-2	Apr-99	0.005	0.025	0.010	0.020	0.080
MW-2	Oct-99	0.028	0.066	0.010	0.245	0.534
MW-2	May-00	0.005	0.025	0.010	0.020	0.025
MW-2	Apr-01	0.019	0.025	0.010	0.020	0.025
MW-2	Apr-03	0.005	0.025	0.010	0.020	0.025
MW-8	Apr-03	0.150	0.690	0.062	1.30	2.00
MW-2	Apr-05	0.005	0.025	0.010	0.020	0.025
MW-8	Apr-05	0.005	0.025	0.010	0.020	0.025
MW-2	Apr-07	0.005	0.025	0.005	0.010	0.0157
MW-8	Apr-07	0.0130	0.025	0.005	0.0317	0.0600
MW-2	Apr-09	0.005	0.025	0.005	0.010	0.0343
MW-8	Apr-09	0.0334	0.139	0.005	0.010	0.285

PQL	0.010	0.050	0.020	0.040	0.050
SWSL	0.010	0.050	0.010	0.020	0.010
# Obs.	22	22	22	22	22
# NDs	17	19	21	17	12
% NDs	77%	86%	95%	77%	55%
Method	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Nonparametric

Limit	0.150	0.690	0.062	1.30	2.00

Chromium

i	i (detects)	TOC	ln(x_i)	Quantile (Censored)	Expected (Censored)	Quantile (Detects Only)	Expected (Detects Only)
1		0.005	-5.30	0.02	-2.000		
2		0.005	-5.30	0.07	-1.489		
3		0.005	-5.30	0.11	-1.207		
4		0.005	-5.30	0.16	-0.998		
5		0.005	-5.30	0.20	-0.825		
6		0.005	-5.30	0.25	-0.674		
7		0.005	-5.30	0.30	-0.538		
8		0.005	-5.30	0.34	-0.410		
9		0.005	-5.30	0.39	-0.289		
10		0.005	-5.30	0.43	-0.172		
11	1	0.0106	-4.55	0.48	-0.057	0.04	-1.732
12	2	0.0113	-4.48	0.52	0.057	0.13	-1.150
13	3	0.0133	-4.32	0.57	0.172	0.21	-0.812
14	4	0.018	-4.02	0.61	0.289	0.29	-0.549
15	5	0.019	-3.96	0.66	0.410	0.38	-0.319
16	6	0.026	-3.65	0.70	0.538	0.46	-0.105
17	7	0.035	-3.35	0.75	0.674	0.54	0.105
18	8	0.06	-2.81	0.80	0.825	0.63	0.319
19	9	0.106	-2.24	0.84	0.998	0.71	0.549
20	10	0.154	-1.87	0.89	1.207	0.79	0.812
21	11	0.172	-1.76	0.93	1.489	0.88	1.150
22	12	1.00	0.00	0.98	2.000	0.96	1.732

Cohen's Adjustment - Lognormal Distribution

Mean (above detection)	-3.085
S.D. (above detection)	1.387
h	0.4545
gamma	0.8331
lambda	0.9230
Corrected Trans. Mean	-4.488
Corrected Trans. S.D.	2.01
Mean	0.09
S.D.	0.64
K	2.64 *
Prediction Limit	1.79

* from "Statistical Methods for Groundwater Monitoring", R.D. Gibbons, Tables 1.11, with k=12 wells, n=22, 20 constituents for which statistical comparisons are made ,and passing the first or one of one verification sample:

	k		
n	10	12	15
20	2.64	2.69	2.77
22		**2.64**	
24	2.55	2.59	2.66

Chromium

Shapiro-Wilk Test - Normal Assumption, Detections					
i	**x_i**	**x_{n-i+1}**	**$x_{n-i+1}-x_i$**	**a_{n-i+1}**	**b_i**
1	0.0106	1.00	1.0	0.5475	0.5417
2	0.0113	0.172	0.2	0.3325	0.0534
3	0.0133	0.154	0.1	0.2347	0.0330
4	0.018	0.106	0.1	0.1586	0.0140
5	0.019	0.06	0.0	0.0922	0.0038
6	0.026	0.035	0.0	0.0303	0.0003
7	0.035	0.026	0.0		
8	0.06	0.019	0.0	**sum b_i**	0.6462
9	0.106	0.018	-0.1		
10	0.154	0.0133	-0.1		
11	0.172	0.0113	-0.2		
12	1.00	0.0106	-1.0		

Std. Dev.= 0.28

W= 0.491 ==> less than 0.805, normal assumption rejected

Shapiro-Wilk Test - Lognormal Assumption, Detections					
i	**y_i**	**y_{n-i+1}**	**$y_{n-i+1}-y_i$**	**a_{n-i+1}**	**b_i**
1	-4.55	0.00	4.5	0.5475	2.4894
2	-4.48	-1.76	2.7	0.3325	0.9053
3	-4.32	-1.87	2.4	0.2347	0.5748
4	-4.02	-2.24	1.8	0.1586	0.2812
5	-3.96	-2.81	1.1	0.0922	0.1060
6	-3.65	-3.35	0.3	0.0303	0.0090
7	-3.35	-3.65	-0.3		
8	-2.81	-3.96	-1.1	**sum b_i**	4.3658
9	-2.24	-4.02	-1.8		
10	-1.87	-4.32	-2.4		
11	-1.76	-4.48	-2.7		
12	0.00	-4.55	-4.5		

Std. Dev.= 1.39

W= 0.900 ==> greater than 0.805, lognormal assumption not rejected

TABLE 1:

Macon County Solid Waste Authority

Old Franklin Landfill

Summary of Field Sampling

TABLE 1: Summary of Field Sampling

Old Franklin Landfill: Permit 57-01

Franklin, North Carolina

Sampling Date: 4/13/2010
Sampler(s): R. Farley
A. McBride
J. Kesterson
Weather Conditions: Sunny 63°F

Property	Units	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-6A	MW-6 CR	MW-7	MW-7A	MW-7C	MW-8	MW-9	MW-10	Dowdle	Haire	Keener
Sampling Depth	Feet	26.04	No Sample	50.50	No Sample	No Sample	33.50	No Sample	91.91	16.81	No Sample	14.06	No Sample	No Sample	13.81	No Sample		No Sample
Static Depth	Feet	25.90		49.00			33.21		43.83	14.73		13.90			10.89			
Well Depth	Feet	43.89		63.08			45.52		144.22	23.39		54.35			108.10			
Water Column Height	Feet	17.99		14.08			12.31		100.39	8.66		40.45			97.21			
Volume Purged	Liters	32		25			18		160	15		72			160			
Purging Status	-----	Finished Purging		Finished Purging					Finished Purging	Finished Purging		Finished Purging			Finished Purging			
Physical Properties	**Units**	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-6A**	**MW-6 CR**	**MW-7**	**MW-7A**	**MW-7C**	**MW-8**	**MW-9**	**MW-10**	**Dowdle**	**Haire**	**Keener**
pH	SU	6.34	No Sample	6.29	No Sample	No Sample	5.64	No Sample	6.61	5.77	No Sample	6.05	No Sample	No Sample	6.37	No Sample	5.53	No Sample
Temperature	°C	16.8		16.8			14.7		14.8	14.3		16.4			14.80		13.9	
Conductivity	umhos/cm	560		348			74.3		473	301		676			509		61.3	
Turbidity	NTU	104		395			793		7.67	>800		1.68			0.57		0.71	
Appearance	-----	Cloudy - No Odor		Cloudy - No Odor			Cloudy - No Odor		Clear - Slight Odor	Cloudy - No Odor		Clear - No Odor			Clear - Slight Odor		Clear - No Odor	
Total Suspended Solids (TSS)	mg/L	78		299			182		5	1500		5			11			1

APPENDIX E:

Macon County Solid Waste Authority

Old Franklin Landfill

Statistical Analysis

Old Franklin Landfill

Well	Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper
MW-2	Jun-94	0.005	0.250	0.001	0.0005	0.005	0.005	0.100
MW-2	Oct-94	0.005	0.844	0.001	0.0005	0.005	0.005	0.100
MW-2	Mar-95	0.005	0.632	0.001	0.0005	0.005	0.005	0.100
MW-2	Nov-95	0.005	0.581	0.001	0.0005	0.005	0.005	0.100
MW-2	Apr-96	0.005	0.250	0.001	0.0005	0.005	0.005	0.100
MW-2	Oct-96	0.005	0.892	0.001	0.0005	0.106	0.040	0.100
MW-2	May-97	0.005	0.250	0.001	0.001	0.005	0.005	0.100
MW-2	Oct-97	0.005	0.250	0.001	0.0005	0.035	0.005	0.100
MW-2	Apr-98	0.005	0.250	0.001	0.0005	0.005	0.005	0.100
MW-2	Oct-98	0.011	0.250	0.001	0.0005	0.06	0.029	0.100
MW-2	Apr-99	0.005	0.250	0.001	0.0005	0.018	0.005	0.100
MW-2	Oct-99	0.005	2.12	0.001	0.0005	0.172	0.077	0.100
MW-2	May-00	0.005	0.250	0.001	0.0005	0.019	0.005	0.100
MW-2	Apr-01	0.005	0.250	0.001	0.0005	0.026	0.005	0.100
MW-2	Apr-03	0.005	0.250	0.001	0.0005	0.005	0.005	0.100
MW-8	Apr-03	0.140	6.10	0.001	0.0005	1.00	0.380	2.40
MW-2	Apr-05	0.005	0.250	0.001	0.0005	0.005	0.005	0.100
MW-8	Apr-05	0.005	0.250	0.001	0.0005	0.0113	0.0106	0.100
MW-2	Apr-07	0.005	0.189	0.0005	0.0005	0.005	0.005	0.005
MW-8	Apr-07	0.005	0.224	0.0005	0.0005	0.0133	0.0163	0.0303
MW-2	Apr-09	0.005	0.175	0.0005	0.0005	0.0106	0.005	0.0101
MW-8	Apr-09	0.0118	1.16	0.0005	0.0005	0.154	0.0779	0.128

PQL	0.010	0.500	0.002	0.001	0.010	0.010	0.200
SWSL	0.006	0.100	0.001	0.001	0.010	0.010	0.010
# Obs.	22	22	22	22	22	22	22
# NDs	19	12	22	21	10	15	18
% NDs	86%	55%	100%	95%	45%	68%	82%
Method	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Adjustment	Nonparametric	Nonparametric

Limit	0.140	6.10	0.002	0.001	1.79	0.380	2.40

Old Franklin Landfill

Well	Date	Lead	Nickel	Selenium	Vanadium	Zinc
MW-2	Jun-94	0.005	0.025	0.010	0.020	0.025
MW-2	Oct-94	0.005	0.025	0.010	0.020	0.025
MW-2	Mar-95	0.005	0.025	0.010	0.020	0.025
MW-2	Nov-95	0.005	0.025	0.010	0.020	0.025
MW-2	Apr-96	0.005	0.025	0.010	0.020	0.025
MW-2	Oct-96	0.005	0.025	0.010	0.145	0.143
MW-2	May-97	0.005	0.025	0.010	0.020	0.025
MW-2	Oct-97	0.005	0.025	0.010	0.020	0.106
MW-2	Apr-98	0.005	0.025	0.010	0.020	0.025
MW-2	Oct-98	0.005	0.025	0.010	0.076	0.134
MW-2	Apr-99	0.005	0.025	0.010	0.020	0.080
MW-2	Oct-99	0.028	0.066	0.010	0.245	0.534
MW-2	May-00	0.005	0.025	0.010	0.020	0.025
MW-2	Apr-01	0.019	0.025	0.010	0.020	0.025
MW-2	Apr-03	0.005	0.025	0.010	0.020	0.025
MW-8	Apr-03	0.150	0.690	0.062	1.30	2.00
MW-2	Apr-05	0.005	0.025	0.010	0.020	0.025
MW-8	Apr-05	0.005	0.025	0.010	0.020	0.025
MW-2	Apr-07	0.005	0.025	0.005	0.010	0.0157
MW-8	Apr-07	0.0130	0.025	0.005	0.0317	0.0600
MW-2	Apr-09	0.005	0.025	0.005	0.010	0.0343
MW-8	Apr-09	0.0334	0.139	0.005	0.010	0.285

PQL	0.010	0.050	0.020	0.040	0.050
SWSL	0.010	0.050	0.010	0.020	0.010
# Obs.	22	22	22	22	22
# NDs	17	19	21	17	12
% NDs	77%	86%	95%	77%	55%
Method	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Nonparametric

Limit	0.150	0.690	0.062	1.30	2.00

Chromium

i	i (detects)	TOC	ln(x_i)	Quantile (Censored)	Expected (Censored)	Quantile (Detects Only)	Expected (Detects Only)
1		0.005	-5.30	0.02	-2.000		
2		0.005	-5.30	0.07	-1.489		
3		0.005	-5.30	0.11	-1.207		
4		0.005	-5.30	0.16	-0.998		
5		0.005	-5.30	0.20	-0.825		
6		0.005	-5.30	0.25	-0.674		
7		0.005	-5.30	0.30	-0.538		
8		0.005	-5.30	0.34	-0.410		
9		0.005	-5.30	0.39	-0.289		
10		0.005	-5.30	0.43	-0.172		
11	1	0.0106	-4.55	0.48	-0.057	0.04	-1.732
12	2	0.0113	-4.48	0.52	0.057	0.13	-1.150
13	3	0.0133	-4.32	0.57	0.172	0.21	-0.812
14	4	0.018	-4.02	0.61	0.289	0.29	-0.549
15	5	0.019	-3.96	0.66	0.410	0.38	-0.319
16	6	0.026	-3.65	0.70	0.538	0.46	-0.105
17	7	0.035	-3.35	0.75	0.674	0.54	0.105
18	8	0.06	-2.81	0.80	0.825	0.63	0.319
19	9	0.106	-2.24	0.84	0.998	0.71	0.549
20	10	0.154	-1.87	0.89	1.207	0.79	0.812
21	11	0.172	-1.76	0.93	1.489	0.88	1.150
22	12	1.00	0.00	0.98	2.000	0.96	1.732

Cohen's Adjustment - Lognormal Distribution

Mean (above detection)	-3.085
S.D. (above detection)	1.387
h	0.4545
gamma	0.8331
lambda	0.9230
Corrected Trans. Mean	-4.488
Corrected Trans. S.D.	2.01
Mean	0.09
S.D.	0.64
K	2.64 *
Prediction Limit	1.79

* from "Statistical Methods for Groundwater Monitoring", R.D. Gibbons, Tables 1.11, with k=12 wells, n=22, 20 constituents for which statistical comparisons are made ,and passing the first or one of one verification sample:

	k		
n	10	12	15
20	2.64	2.69	2.77
22		**2.64**	
24	2.55	2.59	2.66

Chromium

Shapiro-Wilk Test - Normal Assumption, Detections					
i	**x_i**	**x_{n-i+1}**	**$x_{n-i+1}-x_i$**	**a_{n-i+1}**	**b_i**
1	0.0106	1.00	1.0	0.5475	0.5417
2	0.0113	0.172	0.2	0.3325	0.0534
3	0.0133	0.154	0.1	0.2347	0.0330
4	0.018	0.106	0.1	0.1586	0.0140
5	0.019	0.06	0.0	0.0922	0.0038
6	0.026	0.035	0.0	0.0303	0.0003
7	0.035	0.026	0.0		
8	0.06	0.019	0.0	**sum b_i**	0.6462
9	0.106	0.018	-0.1		
10	0.154	0.0133	-0.1		
11	0.172	0.0113	-0.2		
12	1.00	0.0106	-1.0		

Std. Dev.= 0.28

W= 0.491 ==> less than 0.805, normal assumption rejected

Shapiro-Wilk Test - Lognormal Assumption, Detections					
i	**y_i**	**y_{n-i+1}**	**$y_{n-i+1}-y_i$**	**a_{n-i+1}**	**b_i**
1	-4.55	0.00	4.5	0.5475	2.4894
2	-4.48	-1.76	2.7	0.3325	0.9053
3	-4.32	-1.87	2.4	0.2347	0.5748
4	-4.02	-2.24	1.8	0.1586	0.2812
5	-3.96	-2.81	1.1	0.0922	0.1060
6	-3.65	-3.35	0.3	0.0303	0.0090
7	-3.35	-3.65	-0.3		
8	-2.81	-3.96	-1.1	**sum b_i**	4.3658
9	-2.24	-4.02	-1.8		
10	-1.87	-4.32	-2.4		
11	-1.76	-4.48	-2.7		
12	0.00	-4.55	-4.5		

Std. Dev.= 1.39

W= 0.900 ==> greater than 0.805, lognormal assumption not rejected

APPENDIX D:

Macon County Solid Waste Authority

Old Franklin Landfill

Summary of Historical Results

HISTORICAL ANALYTICAL RESULTS

MW-1

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Apr-02	Apr-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-07	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,1-Dichloroethane	70	5	2.6	2.7	NS	NS	NS	*	*	*	*	*	*	*	*	2.9	*	*
1,2-Dichlorobenzene	24	5	*	*	*	*	*	*	*	*	*	*	*	*	*	1.0	*	*
1,2-Dichloroethane	0.38	1	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
1,4-Dichlorobenzene	1.4	1	8.9	10	NS	NS	NS	12.6	12.2	14.1	13.9	11.9	12.5	13.3	13.4	10.8	12.1	12.3
Acetone	700	100	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Benzene	1	1	4.3	4.3	NS	NS	NS	3.7	3.8	3.4	3.1	4.6	4.0	4.7	5.0	4.3	4.8	3.9
Carbon Disulfide	700	100	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	1	1	NS	NS	NS	*	*	*	*	*	4.8	5.6	4.2	3.4	3.2	*
cis-1,2-Dichloroethene	70	5	15	17	NS	NS	NS	14.7	15.4	16.2	15.4	15.0	14.5	14.4	14.0	12.4	13.1	13.3
Dichlorodifluoromethane	1400	NA	*	*	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	*	*	*	*
Methylene Chloride	4.6	1	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Tetrachloroethene (PCE)	0.7	1.0	2.9	3.1	NS	NS	NS	2.1	*	*	2.0	2.2	2.0	2.4	1.8	1.5	1.6	1.7
Toluene	1000	1	2.9	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Trichloroethene (TCE)	2.8	1.0	3.2	2.7	NS	NS	NS	2.3	2.3	*	2.0	2.4	2.1	2.3	1.9	1.6	1.8	1.8
Trichlorofluoromethane	2100	1	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Vinyl Chloride	0.015	1	2.2	1.8	NS	NS	NS	1.1	1.4	*	1.3	1.1	*	1.4		1.0	*	*
METALS	**NC 2L**	**SWSL**	**Apr-02**	**Apr-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-07**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	*	*	NS	NS	NS	*	*	*	*		*	*	*	*	*	*
Arsenic	50	10	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	250	280	NS	NS	NS	*	*	*	*	*	636	273	309	501	305	268
Cadmium	1.75	1	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	1.3	*	*
Chromium	50	10	*	17	NS	NS	NS	*	*	*	*	*	14.9	*	14.7	55.4	*	*
Copper	1000	10	*	10	NS	NS	NS	*	*	*	*	*	17.7	*	*	22.8	*	10.2
Lead	15	10	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Nickel	100	50	*	21	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Selenium	50	10	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	*	*	*
Vanadium	NL	20	*	*	NS	NS	NS	*	*	*	*	*	*	*	*	35.6	*	*
Zinc	1050	10	30	33	NS	NS	NS	*	*	*	*	*	79	*	11.7	28.3	*	18.9

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-1

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,1-Dichloroethane	7	5	*
1,2-Dichlorobenzene	20	5	*
1,2-Dichloroethane	0.4	1	*
1,4-Dichlorobenzene	6	1	12.9
Acetone	6000	100	*
Benzene	1	1	3.7
Carbon Disulfide	700	100	*
Chlorobenzene	50	3	3.4
cis-1,2-Dichloroethene	70	5	13.6
Dichlorodifluoromethane	1000	5	*
Methylene Chloride	5	1	*
Tetrachloroethene (PCE)	0.7	1	*
Toluene	600	1	*
Trichloroethene (TCE)	3	1	1.5
Trichlorofluoromethane	2000	1	*
Vinyl Chloride	0.03	1	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	*
Arsenic	10	10	*
Barium	700	100	261
Cadmium	2	1	*
Chromium	10	10	*
Copper	1000	10	*
Lead	15	10	*
Nickel	100	50	*
Selenium	20	10	*
Vanadium	NL	25	*
Zinc	1000	10	*

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-2

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Apr-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-07	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
Benzene	1	1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Carbon Disulfide	700	100	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Apr-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-07**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Arsenic	50	10	NS	NS	NS	**82**	NS	NS	NS	*	NS	NS	NS	**189**	NS	NS	NS	**175**	NS
Barium	2000	100	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Cadmium	1.75	1	NS	NS	NS	**7.2**	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	**10.6**	NS
Chromium	50	10	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Copper	1000	10	NS	NS	NS	7.1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	10.1	NS
Lead	15	10	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Nickel	100	50	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Selenium	50	10	NS	NS	NS	11	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Vanadium	NL	20	NS	NS	NS	23	NS	NS	NS	*	NS	NS	NS	15.7	NS	NS	NS	34.3	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-2

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
Benzene	1	1	NS
Carbon Disulfide	700	100	NS
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	NS
Arsenic	10	10	NS
Barium	700	100	NS
Cadmium	2	1	NS
Chromium	10	10	NS
Copper	1000	10	NS
Lead	15	10	NS
Nickel	100	50	NS
Selenium	20	10	NS
Vanadium	NL	25	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-3

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Apr-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-07	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,2-Dichlorobenzene	24	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.9	*	*
1,4-Dichlorobenzene	1.4	1	*	*	*	*	*	*	*	*	1.3	1.6	3.1	1.8	2.1	2.5	1.0	*	2.5
Acetone	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benzene	1	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.8	12.1	12.3
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.3	4.8	*
Chloroethane	2800	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.4	3.2	*
Vinyl Chloride	0.015	1	*	5.4	*	*	*	*	*	*	*	*	*	*	*	*	12.4	13.1	*
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Apr-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-07**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Arsenic	10	10	*	6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	390	560	870	621	966	*	1940	6260	2580	266	360	6330	1350	625	1.5	1.6	625
Beryllium	NL	1	*	*	*	*	*	*	*	4.3	1.3	*	*	3.9	*	*	*	*	*
Cadmium	1.75	1	2.8	*	7.3	4.6	6.3	1.6	9.3	26.2	4.9	*	*	23.6	2.00	1.4	1.6	1.8	1.4
Chromium	50	10	16	34	64	16.3	*	*	14.8	114	20.3	*	*	104	28.3	*	*	*	*
Cobalt	NL	10	37	42	44	29.8	43	23.7	64.3	215	74.5	16.1	14.1	191	41.0	20.4	1.0	*	20.4
Copper	1000	10	32	48	88	*	*	*	*	*	184	*	*	457	81.1	29	*	*	29
Lead	15	10	7.5	10	24	*	14.7	*	18.5	82.6	26.1	*	*	108	23.8	*	*	*	*
Nickel	100	50	16	26	36	*	*	*	*	116	*	*	*	109	*	*	501	305	*
Selenium	50	10	7.4	*	*	*	*	*	*	*	*	*	*	*	*	*	1.3	*	*
Vanadium	NL	20	16	31	71	*	*	*	44	279	74.9	*	*	190	53.7	*	55.4	*	*
Zinc	1050	10	63	88	160	*	*	*	82.6	616	103	*	12.8	506	84.5	21.5	22.8	*	21.5

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-3

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,2-Dichlorobenzene	20	5	*
1,4-Dichlorobenzene	6	1	2.5
Acetone	6000	100	*
Benzene	1	1	*
Carbon Disulfide	700	100	*
Chlorobenzene	50	3	*
Chloroethane	3000	10	*
cis-1,2-Dichloroethene	70	5	*
Vinyl Chloride	0.03	1	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	*
Arsenic	10	10	*
Barium	700	100	334
Beryllium	NL	1	*
Cadmium	2	1	1.6
Chromium	10	10	*
Cobalt	NL	10	21.4
Copper	1000	10	18.9
Lead	15	10	*
Nickel	100	50	*
Selenium	20	10	*
Vanadium	NL	25	*
Zinc	1000	10	14.6

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-4

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,1,1-Trichloroethane	200	1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
1,1-Dichloroethane	70	5	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
1,4-Dichlorobenzene	1.4	1	NS	NS	NS	11	NS	NS	NS	13.3	NS	NS	NS	13.6	NS	NS	NS	10.5	NS
Acetone	700	100	NS	NS	NS	790	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Benzene	1	1	NS	NS	NS	5.4	NS	NS	NS	5.7	NS	NS	NS	3.8	NS	NS	NS	3.8	NS
Carbon Disulfide	700	100	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Chlorobenzene	50	3	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Chloroethane	2800	10	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
cis-1,2-Dichloroethene	70	5	NS	NS	NS	21	NS	NS	NS	21.2	NS	NS	NS	15.9	NS	NS	NS	13.0	NS
Methylene Chloride	4.6	1	NS	NS	NS	9.5	NS	NS	NS	5.4	NS	NS	NS	1.2	NS	NS	NS	1.5	NS
Tetrachloroethene (PCE)	0.7	1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Trichloroethene (TCE)	2.8	1	NS	NS	NS	*	NS	NS	NS	1.7	NS	NS	NS	1.5	NS	NS	NS	*	NS
Vinyl Chloride	0.015	1	NS	NS	NS	*	NS	NS	NS	1.8	NS	NS	NS	*	NS	NS	NS	*	NS
Xylenes total	530	3	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	1.6	NS	NS	NS	*	NS
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	NS	NS	NS	5.2	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Arsenic	50	10	NS	NS	NS	5.8	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Barium	2000	100	NS	NS	NS	670	NS	NS	NS	957	NS	NS	NS	903	NS	NS	NS	1030	NS
Cadmium	1.75	1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Chromium	50	10	NS	NS	NS	66	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Cobalt	NL	10	NS	NS	NS	33	NS	NS	NS	115	NS	NS	NS	86.7	NS	NS	NS	56.2	NS
Copper	1000	10	NS	NS	NS	180	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Lead	15	10	NS	NS	NS	22	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Nickel	100	50	NS	NS	NS	35	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Selenium	50	10	NS	NS	NS	6.9	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Silver	18	10	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Vanadium	NL	20	NS	NS	NS	87	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Zinc	1050	10	NS	NS	NS	240	NS	NS	NS	*	NS	NS	NS	77.8	NS	NS	NS	29.0	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-4

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,1,1-Trichloroethane	7	5	NS
1,1-Dichloroethane	0.4	1	NS
1,4-Dichlorobenzene	6	1	NS
Acetone	6000	100	NS
Benzene	1	1	NS
Carbon Disulfide	700	100	NS
Chlorobenzene	50	3	NS
Chloroethane	3000	10	NS
cis-1,2-Dichloroethene	70	5	NS
Methylene Chloride	5	1	NS
Tetrachloroethene (PCE)	0.7	1	NS
Trichloroethene (TCE)	3	1	NS
Vinyl Chloride	0.03	1	NS
Xylenes total	500	5	NS
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	NS
Arsenic	10	10	NS
Barium	700	100	NS
Cadmium	2	1	NS
Chromium	10	10	NS
Cobalt	NL	10	NS
Copper	1000	10	NS
Lead	15	10	NS
Nickel	100	50	NS
Selenium	20	10	NS
Silver	20	10	NS
Vanadium	NL	25	NS
Zinc	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-5

OLD HIGHLANDS LANDFILL: PERMIT NO: 57-02

HIGHLANDS, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,1-Dichloroethane	70	5	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
1,2-Dichloroethane	0.38	1	NS	NS	NS	*	NS	NS	NS	2.1	NS	NS	NS	*	NS	NS	NS	*	NS
1,4-Dichlorobenzene	1.4	1	NS	NS	NS	29	NS	NS	NS	22	NS	NS	NS	23.5	NS	NS	NS	17.6	NS
Acetone	700	100	NS	NS	NS	190	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Benzene	1	1	NS	NS	NS	13	NS	NS	NS	10.4	NS	NS	NS	13.8	NS	NS	NS	6.5	NS
Carbon Disulfide	700	100	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Chloroethane	2800	10	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
cis-1,2-Dichloroethene	70	5	NS	NS	NS	32	NS	NS	NS	21.5	NS	NS	NS	21.6	NS	NS	NS	16.7	NS
Dichlorodifluoromethane	1400	NA	NS	NS	NS	*	NS	NS	NS	NA	NS	NS	NS	NA	NS	NS	NS	*	NS
Methylene Chloride	4.6	1	NS	NS	NS	21	NS	NS	NS	*	NS	NS	NS	1.1	NS	NS	NS	6.9	NS
Tetrachloroethene (PCE)	0.7	1	NS	NS	NS	5.4	NS	NS	NS	*	NS	NS	NS	3.2	NS	NS	NS	1.5	NS
Toluene	1000	1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
trans-1,2-Dichloroethene	100	5	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Trichloroethene (TCE)	2.8	1	NS	NS	NS	*	NS	NS	NS	2	NS	NS	NS	3.6	NS	NS	NS	2.2	NS
Vinyl Chloride	0.015	1	NS	NS	NS	*	NS	NS	NS	1.1	NS	NS	NS	*	NS	NS	NS	*	NS
Xylenes total	530	3	NS	NS	NS	8.5	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
METALS	**NC 2L**	**SWSL**	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
Antimony	NL	6	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Arsenic	50	10	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Barium	2000	100	NS	NS	NS	480	NS	NS	NS	1280	NS	NS	NS	493	NS	NS	NS	363	NS
Cadmium	1.75	1	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Chromium	50	10	NS	NS	NS	24	NS	NS	NS	10.5	NS	NS	NS	*	NS	NS	NS	8	NS
Cobalt	NL	10	NS	NS	NS	89	NS	NS	NS	94.3	NS	NS	NS	35.7	NS	NS	NS	15.5	NS
Copper	1000	10	NS	NS	NS	120	NS	NS	NS	*	NS	NS	NS	39.5	NS	NS	NS	39.4	NS
Lead	15	10	NS	NS	NS	13	NS	NS	NS	24.4	NS	NS	NS	*	NS	NS	NS	*	NS
Nickel	100	50	NS	NS	NS	23	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Selenium	50	10	NS	NS	NS	16	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Vanadium	NL	20	NS	NS	NS	22	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS
Zinc	1050	10	NS	NS	NS	110	NS	NS	NS	120	NS	NS	NS	48.8	NS	NS	NS	45.7	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD HIGHLANDS LANDFILL: PERMIT NO: 57-02

HIGHLANDS, NORTH CAROLINA

MW-5

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,1-Dichloroethane	7	5	NS
1,2-Dichloroethane	0.4	1	NS
1,4-Dichlorobenzene	6	1	NS
Acetone	6000	100	NS
Benzene	1	1	NS
Carbon Disulfide	**700**	**100**	NS
Chloroethane	3000	10	NS
cis-1,2-Dichloroethene	70	5	NS
Dichlorodifluoromethane	1000	5	NS
Methylene Chloride	5	1	NS
Tetrachloroethene (PCE)	0.7	1	NS
Toluene	600	1	NS
trans-1,2-Dichloroethene	**100**	**5**	NS
Trichloroethene (TCE)	3	1	NS
Vinyl Chloride	0.03	1	NS
Xylenes total	500	5	NS
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	NS
Arsenic	10	10	NS
Barium	700	100	NS
Cadmium	2	1	NS
Chromium	10	10	NS
Cobalt	NL	10	NS
Copper	1000	10	NS
Lead	15	10	NS
Nickel	100	50	NS
Selenium	20	10	NS
Vanadium	NL	25	NS
Zinc	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-6

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,1-Dichloroethane	70	5	2.8	2.5	2.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1,2-Dichloroethane	0.38	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1,4-Dichlorobenzene	1.4	1	13	12	11	*	*	*	9.2	5.6	*	*	12.2	12.7	16.9	10.1	12.6	15.8	11.8
Benzene	1	1	7.8	7	6.2	*	*	*	*	*	*	*	2.1	2.0	3.2	1.4	3.1	3.8	2.2
Chloroethane	2800	10	1.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	17	17	14	*	*	*	*	*	*	*	5.4	6.0	9.2	6.7	8.7	10.0	7.4
Methylene Chloride	4.6	1	24	25	21	*	*	*	*	*	*	*	7.2	7.4	11.6	5.7	10.6	12.2	7.7
Tetrachloroethene (PCE)	0.7	1	3.8	3.9	3	*	*	*	1.3	*	*	*	*	*	1.5	*	*	1.1	1
Trichloroethene (TCE)	2.8	1	2.3	2.1	2.1	*	*	*	*	*	*	*	*	*	1.1	*	*	1.0	*
Xylenes total	530	3	9	9.8	7.4	*	*	*	*	*	*	*	*	3.7	7.3	*	4.8	5.8	1.6
METALS	**NC 2L**	**SWSL**	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
Antimony	NL	6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Arsenic	50	10	*	*	*	36	6.1	7.1	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	3500	12000	10000	130	1100	3400	1630	1520	709	862	639	707	317	314	371	291	253
Beryllium	NL	10	2.2	5.2	5.1	*	*	*	*	*	*		*	*	*	*	*	*	*
Cadmium	1.75	1	*	*	*	*	*	21	*	*	*	*	*	*	*	*	*	*	*
Chromium	50	10	190	330	300	*	89	200	133	*	*		*	*	*	*	*	*	*
Cobalt	NL	10	170	440	370	*	44	180	85.6	47.6	12.9	16.6	*	12.4	12.7	*	14.8	13.6	*
Copper	1000	10	440	780	930	4.9	230	550	307	*	*	*	*	26.1	*	*	21.5	*	*
Lead	15	10	88	230	250	*	34	110	42	23.3	*	11.8	*	10.9	*	*	*	*	*
Nickel	100	50	100	190	270	*	58	100	57.4	*	*	*	*	*	*	*	*	*	*
Selenium	50	10	*	*	*	5.5	*	*	*	*	*	*	*	*	*	*	*	*	*
Silver	18	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Vanadium	NL	20	260	460	490	*	120	290	191	*	*	*	*	*	*	*	*	*	*
Zinc	1050	10	840	1500	1300	12	320	790	403	*	51	*	*	32.5	11.4	18.1	45.1	22.7	*

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-6

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,1-Dichloroethane	0.4	1	*
1,2-Dichloroethane	20	5	*
1,4-Dichlorobenzene	6	1	*
Benzene	1	1	*
Chloroethane	3000	10	*
cis-1,2-Dichloroethene	70	5	*
Methylene Chloride	5	1	*
Tetrachloroethene (PCE)	0.7	1	*
Trichloroethene (TCE)	3	1	*
Xylenes total	500	5	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	*
Arsenic	10	10	*
Barium	700	100	283
Beryllium	NL	1	*
Cadmium	2	1	*
Chromium	10	10	*
Cobalt	NL	10	*
Copper	1000	10	*
Lead	15	10	*
Nickel	100	50	*
Selenium	20	10	*
Silver	20	10	*
Vanadium	NL	25	*
Zinc	1000	10	11.2

NOTES:

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2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-6A

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Apr-08	Apr-09	Oct-09	NC 2L	SWSL	Apr-10
1,4-Dichlorobenzene	1.4	1	8.2	NS	NS	NS	9.5	NS	NS	NS	8.6	NS	NS	NS	11.2	NS	6	1	NS
Acetone	700	100	12	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	6000	100	NS
Benzene	1	1	6.3	NS	NS	NS	5.6	NS	NS	NS	6.0	NS	NS	NS	6.2	NS	1	1	NS
cis-1,2-Dichloroethene	70	5	16	NS	NS	NS	17.3	NS	NS	NS	14.6	NS	NS	NS	16.4	NS	70	5	NS
Methylene Chloride	4.6	1	11	NS	NS	NS	5.2	NS	NS	NS	5.1	NS	NS	NS	2.5	NS	5	1	NS
Tetrachoroethane	0.7	1	*	NS	NS	NS	*	NS	NS	NS	1.6	NS	NS	NS	1.3	NS	0.7	1	NS
Trichloroethene	2.8	1	*	NS	NS	NS	1.7	NS	NS	NS	1.6	NS	NS	NS	1.7	NS	3	1	NS
Xylenes	530	3	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	1.2	NS	500	5	NS
METALS	**NC 2L**	**SWSL**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Apr-08**	**Apr-09**	**Oct-09**	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	36	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NL	6	NS
Barium	2000	100	280	NS	NS	NS	*	NS	NS	NS	281	NS	NS	NS	288	NS	700	100	NS
Chromium	50	10	6.8	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	10	10	NS
Cobalt	NL	10	14	NS	NS	NS	14.5	NS	NS	NS	14.5	NS	NS	NS	14.3	NS	NL	10	NS
Copper	1000	10	17	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	1000	10	NS
Nickel	100	50	19	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	100	50	NS
Vanadium	NL	20	7	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NL	25	NS
Zinc	1050	10	58	NS	NS	NS	*	NS	NS	NS	92.5	NS	NS	NS	12.5	NS	1000	10	NS

NOTES:

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2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-6C

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,1-Dichloroethane	70	5.0	2.2	2.3	2.3	*	*	*	*	*	*	*	*	*	NS	*	1.6	*	*
1,4-Dichlorobenzene	1.4	1	4	4.2	3.5	8.4	15	8.5	12.3	11	12.1	11.8	11.0	11.6	NS	7.6	7.4	10.1	12.7
2-Butanone	4200	100	*	*	*	*	*	*	*	*	*	*	*	*	NS	244	*	*	*
Acetone	700	100	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Benzene	1	1	4	3.8	4.2	*	8.2	*	5.5	5.8	5.6	5.1	6.5	5.4	NS	1.3	1.5	2.2	2.6
Carbon Disulfide	700	100	*	*	9.9	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Chloroethane	2800	10	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
cis-1,2-Dichloroethene	70	5	9.4	8.6	10	14	27	15	14.2	16.7	18.4	16.8	15.8	15.3	NS	10.5	10.8	13.5	14.9
Methylene chloride	4.6	1.0	*	*	*	10	8.1	*	*	*	*	*	*	*	NS	1.4	*	*	*
Tetrachloroethene (PCE)	0.7	1	1.6	*	1.1	*	*	*	2.1	*	*	1.3	1.5	1.4	NS	*	*	*	1.1
Trichloroethene (TCE)	2.8	1.0	1.4	1.4	1.1	*	*	*	2.0	1.8	*	1.6	2.0	1.8	NS	1.2	1.1	1.5	1.6
Xylenes total	530	3	3.4	3.6	3.5	5.4	*	*	*	*	*	*	*	3.0	NS	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Arsenic	50	10	8.4	13	16	*	27	20	16.7	11.1	13.3	13.7	11.7	12.9	NS	*	*	*	*
Barium	2000	100	61	61	72	11	140	120	*	*	*	*	*	171	NS	*	*	*	224
Cadmium	1.75	1	*	*	*	*	*	3.3	*	*	*	*	*	*	NS	*	*	*	*
Chromium	50	10	6.4	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Cobalt	NL	10	*	*	*	*	*	*	*	*	*	*	*	*	NS	10.5	*	*	14.2
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Selenium	50	10	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*	*	*
Zinc	1050	10	23	14	11	11	*	*	*	*	*	*	*	47.7	NS	*	*	*	*

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-6C

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,1-Dichloroethane	7	5	*
1,4-Dichlorobenzene	6	1	**11.6**
2-Butanone	4000	10	*
Acetone	6000	100	*
Benzene	1	1	**1.6**
Carbon Disulfide	700	100	*
Chloroethane	3000	10	*
cis-1,2-Dichloroethene	70	5	13.3
Methylene chloride	5	1	*
Tetrachloroethene (PCE)	0.7	1	*
Trichloroethene (TCE)	3	1	1.2
Xylenes total	500	5	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	*
Arsenic	10	10	*
Barium	700	100	278
Cadmium	2	1	*
Chromium	10	10	*
Cobalt	10	10	14.3
Lead	NL	10	*
Nickel	100	50	*
Selenium	20	10	*
Zinc	1000	10	*

NOTES:

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3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-7

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Apr-02	Oct-02	Apr-03	Oct-03	Oct-03 du	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,4-Dichlorobenzene	1.4	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Oct-03 du**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	*	6.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Arsenic	50	10	*	*	*	*	7.1	*	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	2,800	1,900	380	940	940	960	2,410	3,200	1,620	1,950	563	5,530	6,220	1,000	9,170	1,580	1070
Beryllium	NL	1	2.4	2	*	*	*	*	2.3	*	*	*	*	2.0	1.2	*	7.1	1.1	*
Cadmium	1.75	1	*	*	*	*	*	2.7	*	*	*	*	*	*	*	*	2.0		*
Chromium	50	10	90	93	7.7	62	65	24	171	*	26.1	*	*	*	*	*	278	38.7	*
Cobalt	NL	10	61	55	*	23	24	18	61.1	49.9	15.9	20.7	*	54.0	14.7	*	219	28.6	14.9
Copper	1000	10	190	200	16	120	130	55	281	*	*	*	*	65.3	27	13.8	524	82.3	22.2
Lead	15	10	14	19	*	10	11	9.1	19.4	11.4	*	*	*	11.4	9.5	*	68.6	*	*
Nickel	100	50	53	86	*	43	46	11	78.6	*	*	*	*	*	*	*	114	*	*
Selenuim	50	10	15	*	*	*	*	*	*	*	*	*	*	*	*	*	16.3	*	*
Silver	18	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Vanadium	NL	20	150	160	11	86	92	48	247	*	40.1	*	*	*	*	*	220	74.1	25.7
Zinc	1050	10	270	240	22	130	150	71	327	55	98	*	*	113	59.3	25.1	879	141	43.2

NOTES:

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4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-7

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,4-Dichlorobenzene	6	1	*
cis-1,2-Dichloroethene	70	5	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	*
Arsenic	10	10	*
Barium	700	100	**1330**
Beryllium	NL	1	*
Cadmium	2	1	*
Chromium	10	10	*
Cobalt	10	10	22.6
Copper	1000	10	26.5
Lead	NL	10	*
Nickel	100	50	*
Selenuim	20	10	*
Silver	20	10	*
Vanadium	NL	25	*
Zinc	1000	10	46.5

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3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-7A

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	NC 2L	SWSL	Apr-10
1,4-Dichlorobenzene	1.4	1	*	NS	NS	NS	6.7	NS	NS	NS	8.1	NS	NS	NS	8.4	NS	6	1	NS
Benzene	1	1	*	NS	NS	NS	*	NS	NS	NS	1.3	NS	NS	NS	1.5	NS	1	1	NS
Chlorobenzene	50	3	*	NS	NS	NS	*	NS	NS	NS	10.9	NS	NS	NS	18.2	NS	50	3	NS
cis-1,2-Dichloroethene	70	5	6.6	NS	NS	NS	5.2	NS	NS	NS	8.3	NS	NS	NS	9.5	NS	70	5	NS
METALS	**NC 2L**	**SWSL**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**	**NC 2L**	**SWSL**	**Apr-10**
Antimony	NL	6	34	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NL	6	NS
Barium	2000	100	480	NS	NS	NS	*	NS	NS	NS	540	NS	NS	NS	573	NS	700	100	NS
Cadmium	1.75	1	4.1	NS	NS	NS	1.2	NS	NS	NS	1.5	NS	NS	NS	1.6	NS	2	1	NS
Chromium	50	10	12	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	10	10	NS
Cobalt	NL	10	15	NS	NS	NS	*	NS	NS	NS	11.9	NS	NS	NS	11.9	NS	10	10	NS
Copper	1000	10	19	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	1000	10	NS
Lead	15	10	5	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NL	10	NS
Nickel	100	50	12	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	100	50	NS
Selenium	50	10	7.4	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	20	10	NS
Vanadium	NL	20	18	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	NL	25	NS
Zinc	1050	10	54	NS	NS	NS	*	NS	NS	NS	20.2	NS	NS	NS	10.9	NS	1000	10	NS

NOTES:

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3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-7C

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,2-Dichlorobenzene	24	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.4	*	*
1,4-Dichlorobenzene	1.4	1	4.6	4.7	4.5	*	*	6.7	8.1	*	7.3	8.1	7.5	7.8	8.2	8.1	7.2	8.2	8.1
Benzene	1	1	*	*	*	*	*	*	1.2	1.3	1.0	1.2	1.7	1.4	1.3	1.2	1.2	1.4	1.1
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*	5.7	7.1	9.5	9.5	10.1	12.3	10.1
cis-1,2-Dichloroethene	70	5	6.5	4.8	5.4	8.2	7.1	6.6	5.4	6.6	5.2	6	7.8	7.1	6.5	6.8	6.2	7.3	5.4
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Antimony	NL	6	*	*	*	6.7	*	*	*	*	*	*	*	*	*	*	*	*	*
Arsenic	50	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	410	410	410	400	460	460	*	511	573		*	438	422	435	478	468	449
Cadmium	1.75	1	*	*	*	*	*	1.4	*	*	*	*	*	*	*	*	*	*	*
Chromium	50	10	*	*	74	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cobalt	NL	10	13	13	13	14	15	16	10.6	13.3	13.8	14.9	*	13.4	11.5	11.5	16.7	13.9	13.7
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nickel	100	50	*	*	58	*	5.9	*	*	*	*	*	*	*	*	*	*	*	*
Selenium	50	10	*	13	*	7.4	8.4	6.3	*	*	*	*	*	*	*	*	*	*	*
Silver	18	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Zinc	1050	10	15	22	27	*	13	*	131	*	*	*	*	*	62.4	14.0	13.2	*	*

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-7C

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,2-Dichlorobenzene	20	5	*
1,4-Dichlorobenzene	6	1	**6.7**
Benzene	1	1	*
Carbon Disulfide	700	100	*
Chlorobenzene	50	3	5.3
cis-1,2-Dichloroethene	70	5	*
METALS	**NC 2L**	**SWSL**	Apr-10
Antimony	NL	6	*
Arsenic	10	10	*
Barium	700	100	480
Cadmium	2	1	*
Chromium	10	10	*
Cobalt	NL	10	15.9
Lead	15	10	*
Nickel	100	50	*
Selenium	20	10	*
Silver	20	10	*
Zinc	1000	10	*

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-8

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Updated 2-2010

METALS	NC 2L	SWSL	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	NC 2L	SWSL	Apr-10
Arsenic	50	10	140	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	11.8	NS	10	10	NS
Barium	2000	100	6,100	NS	NS	NS	*	NS	NS	NS	224	NS	NS	NS	1160	NS	700	100	NS
Chromium	50	10	1,000	NS	NS	NS	11.3	NS	NS	NS	13.3	NS	NS	NS	154	NS	10	10	NS
Cobalt	NL	10	380	NS	NS	NS	10.6	NS	NS	NS	16.3	NS	NS	NS	77.9	NS	NL	10	NS
Copper	1000	10	2,400	NS	NS	NS	*	NS	NS	NS	30.3	NS	NS	NS	128	NS	1000	10	NS
Lead	15	10	150	NS	NS	NS	*	NS	NS	NS	13.0	NS	NS	NS	33.4	NS	15	10	NS
Nickel	100	50	690	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	139	NS	100	50	NS
Selenium	50	10	62	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	20	10	NS
Vanadium	NL	20	1,300	NS	NS	NS	*	NS	NS	NS	31.7	NS	NS	NS	224	NS	NL	25	NS
Zinc	1050	10	2,000	NS	NS	NS	*	NS	NS	NS	60.0	NS	NS	NS	285	NS	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-9

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	NC 2L	SWSL	Apr-10
1,4-Dichlorobenzene	1.4	1	*	NS	NS	NS	*	NS	NS	NS	1.9	NS	NS	NS	2.5	NS	6	1	NS
Benzene	1	1	*	NS	NS	NS	2.3	NS	NS	NS	2.2	NS	NS	NS	3.0	NS	1	1	NS
cis-1,2-Dichloroethene	70	5	5.3	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	5.4	NS	70	5	NS
METALS	**NC 2L**	**SWSL**	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	**NC 2L**	**SWSL**	Apr-10
Barium	2000	100	53	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	700	100	NS
Zinc	1050	10	*	NS	NS	NS	*	NS	NS	NS	*	NS	NS	NS	*	NS	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

MW-10

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,4-Dichlorobenzene	1.4	1	1.6	2.7	2.6	*	*	*	5.3	5	*	5.1	*	5.0	4.9	4.9	4.0	4.8	4.5
Benzene	1	1	*	1.3	2.9	*	*	*	1.1	1.2	1.1	1.0	1.3	1.3	*	1.1	*	*	*
Carbon Disulfide	700	100	*	*	2.4	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.3	3.1	*
Chloroethane	2800	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	3.3	4.9	6.2	8	7.8	*	5.3	6.3	6.0	5.7	5.2	5.5	*	*	3.1	*	*
METALS	**NC 2L**	**SWSL**	**Oct-01**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Arsenic	50	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	120	120	120	95	100	880	*	*	*	*	*	111	115	119	125	124	113
Cadmium	1.75	1	*	*	*	*	*	3.5	*	*	*	*	*	*	*	*	*	*	*
Chromium	50	10	*	*	*	*	*	61	*	*	*	*	*	*	*	*	*	*	*
Cobalt	NL	10	*	*	*	*	*	19	*	*	*	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	42	*	*	*	*	*	*	*	*	*	*	*
Lead	15	10	*	*	*	*	*	17	*	*	*	*	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	26	*	*	*	*	*	*	*	*	*	*	*
Selenium	50	10	*	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Vanadium	NL	20	*	*	*	*	*	110	*	*	*	*	*	*	*	*	*	*	*
Zinc	1050	10	*	20	37	*	*	140	*	*	*	*	*	26.8	*	*	11.9	*	*

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

MW-10

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,4-Dichlorobenzene	6	1	4
Benzene	1	1	*
Carbon Disulfide	700	100	*
Chlorobenzene	50	3	*
Chloroethane	3000	10	*
cis-1,2-Dichloroethene	70	5	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Arsenic	10	10	*
Barium	700	100	106
Cadmium	2	1	*
Chromium	10	10	*
Cobalt	NL	10	*
Copper	1000	10	*
Lead	15	10	*
Nickel	100	50	*
Selenium	20	10	*
Vanadium	NL	25	*
Zinc	1000	10	*

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

Dowdle

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,2-Dibromo-3-chloropropane (DBCP)	0.025	1	*	*	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.4	1	*	*	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	0.56	1	*	*	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
Chloroform	70	5	*	1.1	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	70	5	1.8	1.5	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
METALS	**NC 2L**	**SWSL**	**Apr-02**	**Oct-02**	**Apr-03**	**Oct-03**	**Apr-04**	**Dec-04**	**Apr-05**	**Oct-05**	**Apr-06**	**Oct-06**	**Apr-07**	**Oct-07**	**Apr-08**	**Oct-08**	**Apr-09**	**Oct-09**
Barium	2,000	100	28	27	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
Cadmium	1.75	1	*	*	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
Chromium	50	10	*	*	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
Lead	15	10	*	*	*	NS	NS	*	23.4	12.8	*	NS	NS	NS	NS	NS	NS	NS
Selenium	50	10	12	*	*	NS	NS	*	*	*	*	NS	NS	NS	NS	NS	NS	NS
Zinc	1,050	10	2100	3200	*	NS	NS	4060	3950	4320	3220	NS	NS	NS	NS	NS	NS	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Dowdle

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,2-Dibromo-3-chloropropane (DBCP)	0.04	13	NS
1,4-Dichlorobenzene	6	1	NS
Bromodichloromethane	0.6	1	NS
Chloroform	70	5	NS
cis-1,2-Dichloroethene	70	5	NS
METALS	**NC 2L**	**SWSL**	**Apr-10**
Barium	700	100	NS
Cadmium	2	1	NS
Chromium	10	10	NS
Lead	15	10	NS
Selenium	20	10	NS
Zinc	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

Haire

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
Chloroform	70	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
Barium	2,000	100	55	54	60	56	41	50	*	*	*	*	*	*	*	*	*	*	*
Copper	1,000	10	25	42	29	15	19	26	*	*	*	*	*	49.2	25.0	34.3	63.9	49.2	36.8
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Silver	17.5	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Thallium	NL	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Zinc	1,050	10	24	44	38	*	22	*	*	*	*	*	67.7	30.5	11.5	25.4	35.6	46.2	39.9

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Haire

Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
Chloroform	70	5	*
METALS	**NC 2L**	**SWSL**	**Apr-10**
Barium	700	100	*
Copper	1000	10	112
Lead	15	10	*
Silver	20	10	*
Thallium	NL	5.5	*
Zinc	1000	10	45.8

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

Keener

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
1,4-Dichlorobenzene	1.4	1	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	0.56	1	3.2	2.7	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	70	5	51	24	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	70	5	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene (PCE)	0.7	1	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
METALS	**NC 2L**	**SWSL**	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
Arsenic	50	10	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	2000	100	15	11	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	1.75	1	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	50	10	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	15	10	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	100	10	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	50	10	*	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	1050	10	14	*	NS	NS	NS	NS	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

HISTORICAL ANALYTICAL RESULTS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

Keener Updated 2-2010

VOCs	NC 2L	SWSL	Apr-10
1,4-Dichlorobenzene	6	1	NS
Bromodichloromethane	0.6	1	NS
Chloroform	70	5	NS
cis-1,2-Dichloroethene	70	5	NS
Tetrachloroethene (PCE)	0.7	1	NS
METALS	**NC 2L**	**SWSL**	Apr-10
Arsenic	10	10	NS
Barium	700	100	NS
Cadmium	2	1	NS
Chromium	10	10	NS
Lead	15	10	NS
Nickel	100	50	NS
Selenium	20	10	NS
Zinc	1000	10	NS

NOTES:

1. ** - Constituent did not exceed laboratory Practical Quantitation Limit (PQL) or Solid Waste Section Limit (SWSL)*
2. *NS – Location Not Sampled*
3. *NL – Constituent does not have a NC2L Standard*
4. *Constituents that exceed the NC2L Standard are Highlighted in Red*
5. *DRY – Well was dry during sampling event*
6. *All constituents measured in parts per billion (ppb)*
7. *Only compounds detected above the laboratory PQL or SWSL are listed*
8. *N/A – Not Applicable*

APPENDIX C:

Macon County Solid Waste Authority

Old Franklin Landfill

Laboratory Results and Chain-of-Custody

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

Improving the environment, one client at a time...

April 30, 2010

Mr. Chris Stahl
MACON COUNTY SOLID WASTE MANAGEMENT
5 WEST MAIN ST
FRANKLIN NC 28734

TEL: (828) 349-2100
FAX (828) 349-2185

RE: OLD FRANKLIN LANDFILL

Order No.: 1004B81

Dear Mr. Chris Stahl:

REI Consultants, Inc. received 10 sample(s) on 4/15/2010 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Michelle Ellison

REI Consultants, Inc. Analytical Results

Date: *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-01A
Client Sample ID:	MW-1	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 12:08:00 PM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	0.211	µg/L	J	0.200	6.00	4/22/2010 11:01:38 PM
Arsenic	1.39	µg/L	J	1.00	10.0	4/22/2010 11:01:38 PM
Barium	261	µg/L		1.00	100	4/22/2010 11:01:38 PM
Beryllium	ND	µg/L		0.200	1.00	4/22/2010 11:01:38 PM
Cadmium	0.211	µg/L	J	0.200	1.00	4/22/2010 11:01:38 PM
Chromium	3.21	µg/L	J	1.00	10.0	4/22/2010 11:01:38 PM
Cobalt	2.79	µg/L	J	1.00	10.0	4/22/2010 11:01:38 PM
Copper	4.30	µg/L	J	1.00	10.0	4/22/2010 11:01:38 PM
Lead	0.438	µg/L	J	0.200	10.0	4/22/2010 11:01:38 PM
Nickel	5.49	µg/L	J	2.00	50.0	4/22/2010 11:01:38 PM
Selenium	1.90	µg/L	J	1.00	10.0	4/22/2010 11:01:38 PM
Silver	ND	µg/L		1.00	10.0	4/26/2010 8:10:49 PM
Thallium	ND	µg/L		0.200	5.50	4/22/2010 11:01:38 PM
Vanadium	3.17	µg/L	J	1.00	25.0	4/22/2010 11:01:38 PM
Zinc	6.21	µg/L	J	3.00	10.0	4/22/2010 11:01:38 PM

NOTES:
Matrix spike recovery for Silver did not meet REIC control criteria due to matrix interference.

VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 1:27:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 1:27:00 PM
Benzene	3.7	µg/L		0.13	1.0	4/15/2010 1:27:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 1:27:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 1:27:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 1:27:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 1:27:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 1:27:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 1:27:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 1:27:00 PM
Chlorobenzene	3.4	µg/L		0.18	3.0	4/15/2010 1:27:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 1:27:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 1:27:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 1:27:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 1:27:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 1:27:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 1:27:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 1:27:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-01A
Client Sample ID:	MW-1	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 12:08:00 PM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
1,2-Dichlorobenzene	1.0	µg/L	J	0.45	5.0	4/15/2010 1:27:00 PM
1,4-Dichlorobenzene	12.9	µg/L		0.29	1.0	4/15/2010 1:27:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 1:27:00 PM
1,1-Dichloroethane	2.9	µg/L	J	0.38	5.0	4/15/2010 1:27:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 1:27:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 1:27:00 PM
cis-1,2-Dichloroethene	13.6	µg/L		0.23	5.0	4/15/2010 1:27:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 1:27:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 1:27:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 1:27:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 1:27:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 1:27:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 1:27:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 1:27:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 1:27:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 1:27:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 1:27:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 1:27:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 1:27:00 PM
Tetrachloroethene	1.0	µg/L	J	0.20	1.0	4/15/2010 1:27:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 1:27:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 1:27:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 1:27:00 PM
Trichloroethene	1.5	µg/L		0.30	1.0	4/15/2010 1:27:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 1:27:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 1:27:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 1:27:00 PM
Vinyl chloride	0.9	µg/L	J	0.22	1.0	4/15/2010 1:27:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 1:27:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 1:27:00 PM
Surr: 1,2-Dichloroethane-d4	100	%REC			80-120	4/15/2010 1:27:00 PM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	4/15/2010 1:27:00 PM
Surr: Dibromofluoromethane	103	%REC			80-120	4/15/2010 1:27:00 PM
Surr: Toluene-d8	101	%REC			88-110	4/15/2010 1:27:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	78,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-02A
Client Sample ID:	MW-3	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 12:56:00 PM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/22/2010 11:19:13 PM
Arsenic	2.78	µg/L	J	1.00	10.0	4/22/2010 11:19:13 PM
Barium	334	µg/L		1.00	100	4/22/2010 11:19:13 PM
Beryllium	ND	µg/L		0.200	1.00	4/22/2010 11:19:13 PM
Cadmium	1.64	µg/L		0.200	1.00	4/22/2010 11:19:13 PM
Chromium	2.24	µg/L	J	1.00	10.0	4/22/2010 11:19:13 PM
Cobalt	21.4	µg/L		1.00	10.0	4/22/2010 11:19:13 PM
Copper	18.9	µg/L		1.00	10.0	4/22/2010 11:19:13 PM
Lead	3.19	µg/L	J	0.200	10.0	4/22/2010 11:19:13 PM
Nickel	5.70	µg/L	J	2.00	50.0	4/22/2010 11:19:13 PM
Selenium	1.56	µg/L	J	1.00	10.0	4/22/2010 11:19:13 PM
Silver	ND	µg/L		1.00	10.0	4/22/2010 11:19:13 PM
Thallium	ND	µg/L		0.200	5.50	4/22/2010 11:19:13 PM
Vanadium	5.40	µg/L	J	1.00	25.0	4/22/2010 11:19:13 PM
Zinc	14.6	µg/L		3.00	10.0	4/22/2010 11:19:13 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 1:59:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 1:59:00 PM
Benzene	0.4	µg/L	J	0.13	1.0	4/15/2010 1:59:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 1:59:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 1:59:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 1:59:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 1:59:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 1:59:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 1:59:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 1:59:00 PM
Chlorobenzene	0.9	µg/L	J	0.18	3.0	4/15/2010 1:59:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 1:59:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 1:59:00 PM
Chloromethane	0.6	µg/L	J	0.33	1.0	4/15/2010 1:59:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 1:59:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 1:59:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 1:59:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 1:59:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 1:59:00 PM
1,4-Dichlorobenzene	2.5	µg/L		0.29	1.0	4/15/2010 1:59:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-02A
Client Sample ID:	MW-3	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 12:56:00 PM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 1:59:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 1:59:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 1:59:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 1:59:00 PM
cis-1,2-Dichloroethene	0.8	µg/L	J	0.23	5.0	4/15/2010 1:59:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 1:59:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 1:59:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 1:59:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 1:59:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 1:59:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 1:59:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 1:59:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 1:59:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 1:59:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 1:59:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 1:59:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 1:59:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 1:59:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 1:59:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 1:59:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 1:59:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 1:59:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 1:59:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 1:59:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 1:59:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 1:59:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 1:59:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 1:59:00 PM
Surr: 1,2-Dichloroethane-d4	100	%REC			80-120	4/15/2010 1:59:00 PM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	4/15/2010 1:59:00 PM
Surr: Dibromofluoromethane	106	%REC			80-120	4/15/2010 1:59:00 PM
Surr: Toluene-d8	101	%REC			88-110	4/15/2010 1:59:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	299,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. Analytical Results

Date: *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-03A
Client Sample ID:	MW-6	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 9:15:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/22/2010 11:25:06 PM
Arsenic	ND	µg/L		1.00	10.0	4/22/2010 11:25:06 PM
Barium	283	µg/L		1.00	100	4/22/2010 11:25:06 PM
Beryllium	ND	µg/L		0.200	1.00	4/22/2010 11:25:06 PM
Cadmium	ND	µg/L		0.200	1.00	4/22/2010 11:25:06 PM
Chromium	ND	µg/L		1.00	10.0	4/22/2010 11:25:06 PM
Cobalt	3.58	µg/L	J	1.00	10.0	4/22/2010 11:25:06 PM
Copper	3.38	µg/L	J	1.00	10.0	4/22/2010 11:25:06 PM
Lead	1.96	µg/L	J	0.200	10.0	4/22/2010 11:25:06 PM
Nickel	ND	µg/L		2.00	50.0	4/22/2010 11:25:06 PM
Selenium	1.28	µg/L	J	1.00	10.0	4/22/2010 11:25:06 PM
Silver	ND	µg/L		1.00	10.0	4/22/2010 11:25:06 PM
Thallium	ND	µg/L		0.200	5.50	4/22/2010 11:25:06 PM
Vanadium	1.68	µg/L	J	1.00	25.0	4/22/2010 11:25:06 PM
Zinc	11.2	µg/L		3.00	10.0	4/22/2010 11:25:06 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 2:32:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 2:32:00 PM
Benzene	ND	µg/L		0.13	1.0	4/15/2010 2:32:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 2:32:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 2:32:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 2:32:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 2:32:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 2:32:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 2:32:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 2:32:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/15/2010 2:32:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 2:32:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 2:32:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 2:32:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 2:32:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 2:32:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 2:32:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 2:32:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 2:32:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/15/2010 2:32:00 PM

Key:

MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-03A
Client Sample ID:	MW-6	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 9:15:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 2:32:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 2:32:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 2:32:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 2:32:00 PM
cis-1,2-Dichloroethene	0.4	µg/L	J	0.23	5.0	4/15/2010 2:32:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 2:32:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 2:32:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 2:32:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 2:32:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 2:32:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 2:32:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 2:32:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 2:32:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 2:32:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 2:32:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 2:32:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 2:32:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 2:32:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 2:32:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 2:32:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 2:32:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 2:32:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 2:32:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 2:32:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 2:32:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 2:32:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 2:32:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 2:32:00 PM
Surr: 1,2-Dichloroethane-d4	103	%REC			80-120	4/15/2010 2:32:00 PM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	4/15/2010 2:32:00 PM
Surr: Dibromofluoromethane	103	%REC			80-120	4/15/2010 2:32:00 PM
Surr: Toluene-d8	99.7	%REC			88-110	4/15/2010 2:32:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	182,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-04A
Client Sample ID:	MW-6 CR	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 9:30:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/22/2010 11:30:59 PM
Arsenic	2.88	µg/L	J	1.00	10.0	4/22/2010 11:30:59 PM
Barium	278	µg/L		1.00	100	4/22/2010 11:30:59 PM
Beryllium	ND	µg/L		0.200	1.00	4/22/2010 11:30:59 PM
Cadmium	ND	µg/L		0.200	1.00	4/22/2010 11:30:59 PM
Chromium	ND	µg/L		1.00	10.0	4/22/2010 11:30:59 PM
Cobalt	14.3	µg/L		1.00	10.0	4/22/2010 11:30:59 PM
Copper	1.70	µg/L	J	1.00	10.0	4/22/2010 11:30:59 PM
Lead	ND	µg/L		0.200	10.0	4/22/2010 11:30:59 PM
Nickel	8.98	µg/L	J	2.00	50.0	4/22/2010 11:30:59 PM
Selenium	1.13	µg/L	J	1.00	10.0	4/22/2010 11:30:59 PM
Silver	ND	µg/L		1.00	10.0	4/22/2010 11:30:59 PM
Thallium	ND	µg/L		0.200	5.50	4/22/2010 11:30:59 PM
Vanadium	ND	µg/L		1.00	25.0	4/22/2010 11:30:59 PM
Zinc	3.94	µg/L	J	3.00	10.0	4/22/2010 11:30:59 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 3:05:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 3:05:00 PM
Benzene	1.6	µg/L		0.13	1.0	4/15/2010 3:05:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 3:05:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 3:05:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 3:05:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 3:05:00 PM
2-Butanone	67.8	µg/L	J	4.68	100	4/15/2010 3:05:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 3:05:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 3:05:00 PM
Chlorobenzene	1.2	µg/L	J	0.18	3.0	4/15/2010 3:05:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 3:05:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 3:05:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 3:05:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 3:05:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 3:05:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 3:05:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 3:05:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 3:05:00 PM
1,4-Dichlorobenzene	11.6	µg/L		0.29	1.0	4/15/2010 3:05:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-04A
Client Sample ID:	MW-6 CR	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 9:30:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 3:05:00 PM
1,1-Dichloroethane	1.6	µg/L	J	0.38	5.0	4/15/2010 3:05:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 3:05:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 3:05:00 PM
cis-1,2-Dichloroethene	13.3	µg/L		0.23	5.0	4/15/2010 3:05:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 3:05:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 3:05:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 3:05:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 3:05:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 3:05:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 3:05:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 3:05:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 3:05:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 3:05:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 3:05:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 3:05:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 3:05:00 PM
Tetrachloroethene	0.6	µg/L	J	0.20	1.0	4/15/2010 3:05:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 3:05:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 3:05:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 3:05:00 PM
Trichloroethene	1.2	µg/L		0.30	1.0	4/15/2010 3:05:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 3:05:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 3:05:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 3:05:00 PM
Vinyl chloride	0.4	µg/L	J	0.22	1.0	4/15/2010 3:05:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 3:05:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 3:05:00 PM
Surr: 1,2-Dichloroethane-d4	102	%REC			80-120	4/15/2010 3:05:00 PM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	4/15/2010 3:05:00 PM
Surr: Dibromofluoromethane	104	%REC			80-120	4/15/2010 3:05:00 PM
Surr: Toluene-d8	100	%REC			88-110	4/15/2010 3:05:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	5,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-05A
Client Sample ID:	MW-7	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 11:19:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/22/2010 11:36:52 PM
Arsenic	1.06	µg/L	J	1.00	10.0	4/22/2010 11:36:52 PM
Barium	1,330	µg/L		1.00	100	4/22/2010 11:36:52 PM
Beryllium	0.748	µg/L	J	0.200	1.00	4/22/2010 11:36:52 PM
Cadmium	0.421	µg/L	J	0.200	1.00	4/22/2010 11:36:52 PM
Chromium	7.37	µg/L	J	1.00	10.0	4/22/2010 11:36:52 PM
Cobalt	22.6	µg/L		1.00	10.0	4/22/2010 11:36:52 PM
Copper	26.5	µg/L		1.00	10.0	4/22/2010 11:36:52 PM
Lead	6.79	µg/L	J	0.200	10.0	4/22/2010 11:36:52 PM
Nickel	3.26	µg/L	J	2.00	50.0	4/22/2010 11:36:52 PM
Selenium	3.05	µg/L	J	1.00	10.0	4/22/2010 11:36:52 PM
Silver	ND	µg/L		1.00	10.0	4/22/2010 11:36:52 PM
Thallium	0.280	µg/L	J	0.200	5.50	4/22/2010 11:36:52 PM
Vanadium	22.2	µg/L	J	1.00	25.0	4/22/2010 11:36:52 PM
Zinc	46.5	µg/L		3.00	10.0	4/22/2010 11:36:52 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 3:37:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 3:37:00 PM
Benzene	ND	µg/L		0.13	1.0	4/15/2010 3:37:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 3:37:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 3:37:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 3:37:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 3:37:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 3:37:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 3:37:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 3:37:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/15/2010 3:37:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 3:37:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 3:37:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 3:37:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 3:37:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 3:37:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 3:37:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 3:37:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 3:37:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/15/2010 3:37:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-05A
Client Sample ID:	MW-7	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 11:19:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 3:37:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 3:37:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 3:37:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 3:37:00 PM
cis-1,2-Dichloroethene	0.4	µg/L	J	0.23	5.0	4/15/2010 3:37:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 3:37:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 3:37:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 3:37:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 3:37:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 3:37:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 3:37:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 3:37:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 3:37:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 3:37:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 3:37:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 3:37:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 3:37:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 3:37:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 3:37:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 3:37:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 3:37:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 3:37:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 3:37:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 3:37:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 3:37:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 3:37:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 3:37:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 3:37:00 PM
Surr: 1,2-Dichloroethane-d4	103	%REC			80-120	4/15/2010 3:37:00 PM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	4/15/2010 3:37:00 PM
Surr: Dibromofluoromethane	104	%REC			80-120	4/15/2010 3:37:00 PM
Surr: Toluene-d8	100	%REC			88-110	4/15/2010 3:37:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	1,500,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-06A
Client Sample ID:	MW-7C	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 11:40:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/22/2010 11:42:45 PM
Arsenic	1.69	µg/L	J	1.00	10.0	4/22/2010 11:42:45 PM
Barium	480	µg/L		1.00	100	4/22/2010 11:42:45 PM
Beryllium	ND	µg/L		0.200	1.00	4/22/2010 11:42:45 PM
Cadmium	0.379	µg/L	J	0.200	1.00	4/22/2010 11:42:45 PM
Chromium	ND	µg/L		1.00	10.0	4/22/2010 11:42:45 PM
Cobalt	15.9	µg/L		1.00	10.0	4/22/2010 11:42:45 PM
Copper	2.22	µg/L	J	1.00	10.0	4/22/2010 11:42:45 PM
Lead	ND	µg/L		0.200	10.0	4/22/2010 11:42:45 PM
Nickel	5.39	µg/L	J	2.00	50.0	4/22/2010 11:42:45 PM
Selenium	2.23	µg/L	J	1.00	10.0	4/22/2010 11:42:45 PM
Silver	ND	µg/L		1.00	10.0	4/22/2010 11:42:45 PM
Thallium	ND	µg/L		0.200	5.50	4/22/2010 11:42:45 PM
Vanadium	ND	µg/L		1.00	25.0	4/22/2010 11:42:45 PM
Zinc	7.05	µg/L	J	3.00	10.0	4/22/2010 11:42:45 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 4:10:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 4:10:00 PM
Benzene	0.9	µg/L	J	0.13	1.0	4/15/2010 4:10:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 4:10:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 4:10:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 4:10:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 4:10:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 4:10:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 4:10:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 4:10:00 PM
Chlorobenzene	5.3	µg/L		0.18	3.0	4/15/2010 4:10:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 4:10:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 4:10:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 4:10:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 4:10:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 4:10:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 4:10:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 4:10:00 PM
1,2-Dichlorobenzene	0.8	µg/L	J	0.45	5.0	4/15/2010 4:10:00 PM
1,4-Dichlorobenzene	6.7	µg/L		0.29	1.0	4/15/2010 4:10:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-06A
Client Sample ID:	MW-7C	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 11:40:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 4:10:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 4:10:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 4:10:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 4:10:00 PM
cis-1,2-Dichloroethene	2.6	µg/L	J	0.23	5.0	4/15/2010 4:10:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 4:10:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 4:10:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 4:10:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 4:10:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 4:10:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 4:10:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 4:10:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 4:10:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 4:10:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 4:10:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 4:10:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 4:10:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 4:10:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 4:10:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 4:10:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 4:10:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 4:10:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 4:10:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 4:10:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 4:10:00 PM
Vinyl chloride	0.3	µg/L	J	0.22	1.0	4/15/2010 4:10:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 4:10:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 4:10:00 PM
Surr: 1,2-Dichloroethane-d4	104	%REC			80-120	4/15/2010 4:10:00 PM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	4/15/2010 4:10:00 PM
Surr: Dibromofluoromethane	104	%REC			80-120	4/15/2010 4:10:00 PM
Surr: Toluene-d8	102	%REC			88-110	4/15/2010 4:10:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	5,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-07A
Client Sample ID:	MW-10	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 10:46:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/22/2010 11:48:40 PM
Arsenic	1.19	µg/L	J	1.00	10.0	4/22/2010 11:48:40 PM
Barium	106	µg/L		1.00	100	4/22/2010 11:48:40 PM
Beryllium	ND	µg/L		0.200	1.00	4/22/2010 11:48:40 PM
Cadmium	ND	µg/L		0.200	1.00	4/22/2010 11:48:40 PM
Chromium	ND	µg/L		1.00	10.0	4/22/2010 11:48:40 PM
Cobalt	ND	µg/L		1.00	10.0	4/22/2010 11:48:40 PM
Copper	ND	µg/L		1.00	10.0	4/22/2010 11:48:40 PM
Lead	ND	µg/L		0.200	10.0	4/22/2010 11:48:40 PM
Nickel	3.91	µg/L	J	2.00	50.0	4/22/2010 11:48:40 PM
Selenium	1.47	µg/L	J	1.00	10.0	4/22/2010 11:48:40 PM
Silver	ND	µg/L		1.00	10.0	4/22/2010 11:48:40 PM
Thallium	ND	µg/L		0.200	5.50	4/22/2010 11:48:40 PM
Vanadium	ND	µg/L		1.00	25.0	4/22/2010 11:48:40 PM
Zinc	6.72	µg/L	J	3.00	10.0	4/22/2010 11:48:40 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 4:43:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 4:43:00 PM
Benzene	0.9	µg/L	J	0.13	1.0	4/15/2010 4:43:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 4:43:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 4:43:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 4:43:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 4:43:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 4:43:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 4:43:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 4:43:00 PM
Chlorobenzene	2.1	µg/L	J	0.18	3.0	4/15/2010 4:43:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 4:43:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 4:43:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 4:43:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 4:43:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 4:43:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 4:43:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 4:43:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 4:43:00 PM
1,4-Dichlorobenzene	4.0	µg/L		0.29	1.0	4/15/2010 4:43:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-07A
Client Sample ID:	MW-10	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 10:46:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 4:43:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 4:43:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 4:43:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 4:43:00 PM
cis-1,2-Dichloroethene	3.5	µg/L	J	0.23	5.0	4/15/2010 4:43:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 4:43:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 4:43:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 4:43:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 4:43:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 4:43:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 4:43:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 4:43:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 4:43:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 4:43:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 4:43:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 4:43:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 4:43:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 4:43:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 4:43:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 4:43:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 4:43:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 4:43:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 4:43:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 4:43:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 4:43:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 4:43:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 4:43:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 4:43:00 PM
Surr: 1,2-Dichloroethane-d4	106	%REC			80-120	4/15/2010 4:43:00 PM
Surr: 4-Bromofluorobenzene	104	%REC			86-115	4/15/2010 4:43:00 PM
Surr: Dibromofluoromethane	106	%REC			80-120	4/15/2010 4:43:00 PM
Surr: Toluene-d8	101	%REC			88-110	4/15/2010 4:43:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	11,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. Analytical Results

Date: *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-08A
Client Sample ID:	HAIRE	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 9:45:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/23/2010 12:06:12 AM
Arsenic	ND	µg/L		1.00	10.0	4/23/2010 12:06:12 AM
Barium	64.9	µg/L	J	1.00	100	4/23/2010 12:06:12 AM
Beryllium	ND	µg/L		0.200	1.00	4/23/2010 12:06:12 AM
Cadmium	ND	µg/L		0.200	1.00	4/23/2010 12:06:12 AM
Chromium	ND	µg/L		1.00	10.0	4/23/2010 12:06:12 AM
Cobalt	ND	µg/L		1.00	10.0	4/23/2010 12:06:12 AM
Copper	112	µg/L		1.00	10.0	4/23/2010 12:06:12 AM
Lead	3.63	µg/L	J	0.200	10.0	4/23/2010 12:06:12 AM
Nickel	ND	µg/L		2.00	50.0	4/23/2010 12:06:12 AM
Selenium	1.02	µg/L	J	1.00	10.0	4/23/2010 12:06:12 AM
Silver	ND	µg/L		1.00	10.0	4/23/2010 12:06:12 AM
Thallium	ND	µg/L		0.200	5.50	4/23/2010 12:06:12 AM
Vanadium	ND	µg/L		1.00	25.0	4/23/2010 12:06:12 AM
Zinc	45.8	µg/L		3.00	10.0	4/23/2010 12:06:12 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 5:15:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 5:15:00 PM
Benzene	ND	µg/L		0.13	1.0	4/15/2010 5:15:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 5:15:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 5:15:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 5:15:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 5:15:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 5:15:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 5:15:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 5:15:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/15/2010 5:15:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 5:15:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 5:15:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 5:15:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 5:15:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 5:15:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 5:15:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 5:15:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 5:15:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/15/2010 5:15:00 PM

Key:

MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-08A
Client Sample ID:	HAIRE	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 9:45:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 5:15:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 5:15:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 5:15:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 5:15:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/15/2010 5:15:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 5:15:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 5:15:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 5:15:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 5:15:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 5:15:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 5:15:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 5:15:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 5:15:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 5:15:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 5:15:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 5:15:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 5:15:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 5:15:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 5:15:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 5:15:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 5:15:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 5:15:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 5:15:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 5:15:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 5:15:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 5:15:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 5:15:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 5:15:00 PM
Surr: 1,2-Dichloroethane-d4	101	%REC			80-120	4/15/2010 5:15:00 PM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	4/15/2010 5:15:00 PM
Surr: Dibromofluoromethane	103	%REC			80-120	4/15/2010 5:15:00 PM
Surr: Toluene-d8	99.9	%REC			88-110	4/15/2010 5:15:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	1,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. Analytical Results

Date: *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-09A
Client Sample ID:	MW-10 DUP	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 10:46:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Antimony	ND	µg/L		0.200	6.00	4/26/2010 8:28:23 PM
Arsenic	1.61	µg/L	J	1.00	10.0	4/26/2010 8:28:23 PM
Barium	107	µg/L		1.00	100	4/26/2010 8:28:23 PM
Beryllium	ND	µg/L		0.200	1.00	4/26/2010 8:28:23 PM
Cadmium	ND	µg/L		0.200	1.00	4/26/2010 8:28:23 PM
Chromium	ND	µg/L		1.00	10.0	4/26/2010 8:28:23 PM
Cobalt	1.02	µg/L	J	1.00	10.0	4/26/2010 8:28:23 PM
Copper	ND	µg/L		1.00	10.0	4/26/2010 8:28:23 PM
Lead	ND	µg/L		0.200	10.0	4/26/2010 8:28:23 PM
Nickel	4.30	µg/L	J	2.00	50.0	4/26/2010 8:28:23 PM
Selenium	1.73	µg/L	J	1.00	10.0	4/26/2010 8:28:23 PM
Silver	ND	µg/L		1.00	10.0	4/29/2010 2:14:55 AM
Thallium	ND	µg/L		0.200	5.50	4/26/2010 8:28:23 PM
Vanadium	ND	µg/L		1.00	25.0	4/26/2010 8:28:23 PM
Zinc	6.38	µg/L	J	3.00	10.0	4/29/2010 2:14:55 AM

NOTES:
Matrix spike recovery for Silver did not meet REIC control criteria due to matrix interference.

VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 5:48:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 5:48:00 PM
Benzene	0.9	µg/L	J	0.13	1.0	4/15/2010 5:48:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 5:48:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 5:48:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 5:48:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 5:48:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 5:48:00 PM
Carbon disulfide	1.4	µg/L	J	1.27	100	4/15/2010 5:48:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 5:48:00 PM
Chlorobenzene	2.2	µg/L	J	0.18	3.0	4/15/2010 5:48:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 5:48:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 5:48:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 5:48:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 5:48:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 5:48:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 5:48:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 5:48:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-09A
Client Sample ID:	MW-10 DUP	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 10:46:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 5:48:00 PM
1,4-Dichlorobenzene	4.0	µg/L		0.29	1.0	4/15/2010 5:48:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 5:48:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 5:48:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 5:48:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 5:48:00 PM
cis-1,2-Dichloroethene	3.4	µg/L	J	0.23	5.0	4/15/2010 5:48:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 5:48:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 5:48:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 5:48:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 5:48:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 5:48:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 5:48:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 5:48:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 5:48:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 5:48:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 5:48:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 5:48:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 5:48:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 5:48:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 5:48:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 5:48:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 5:48:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 5:48:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 5:48:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 5:48:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 5:48:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 5:48:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 5:48:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 5:48:00 PM
Surr: 1,2-Dichloroethane-d4	105	%REC			80-120	4/15/2010 5:48:00 PM
Surr: 4-Bromofluorobenzene	101	%REC			86-115	4/15/2010 5:48:00 PM
Surr: Dibromofluoromethane	104	%REC			80-120	4/15/2010 5:48:00 PM
Surr: Toluene-d8	101	%REC			88-110	4/15/2010 5:48:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	5,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-09X
Client Sample ID:	MW-10 DUP MS	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 10:46:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	**Result**	**Units**	**Qual**	**MDL**	**PQL**	**Date Analyzed**
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	4,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-09Y
Client Sample ID:	MW-10 DUP MSD	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**	4/13/2010 10:46:00 AM		
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	LIQUID		

Analyses	**Result**	**Units**	**Qual**	**MDL**	**PQL**	**Date Analyzed**
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	5,000	µg/L		1,000	1,000	4/16/2010 5:40:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

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REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-10A
Client Sample ID:	TRIP BLANK	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**			
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Acetone	ND	µg/L		4.88	100	4/15/2010 12:54:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/15/2010 12:54:00 PM
Benzene	ND	µg/L		0.13	1.0	4/15/2010 12:54:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/15/2010 12:54:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/15/2010 12:54:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/15/2010 12:54:00 PM
Bromomethane	ND	µg/L		0.50	10.0	4/15/2010 12:54:00 PM
2-Butanone	ND	µg/L		4.68	100	4/15/2010 12:54:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/15/2010 12:54:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/15/2010 12:54:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/15/2010 12:54:00 PM
Chloroethane	ND	µg/L		0.94	10.0	4/15/2010 12:54:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/15/2010 12:54:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/15/2010 12:54:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/15/2010 12:54:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/15/2010 12:54:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/15/2010 12:54:00 PM
Dibromomethane	ND	µg/L		0.29	10.0	4/15/2010 12:54:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/15/2010 12:54:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/15/2010 12:54:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/15/2010 12:54:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/15/2010 12:54:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/15/2010 12:54:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/15/2010 12:54:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/15/2010 12:54:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/15/2010 12:54:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/15/2010 12:54:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 12:54:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/15/2010 12:54:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/15/2010 12:54:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/15/2010 12:54:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/15/2010 12:54:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/15/2010 12:54:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/15/2010 12:54:00 PM
Styrene	ND	µg/L		0.24	1.0	4/15/2010 12:54:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/15/2010 12:54:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/15/2010 12:54:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. **Analytical Results** **Date:** *25-Aug-10*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1004B81	**Lab ID**	1004B81-10A
Client Sample ID:	TRIP BLANK	**DateReceived:**	4/15/2010		
Project:	OLD FRANKLIN LANDFILL	**Collection Date:**			
Site ID:	OLD FRANKLIN L.F./ N.C.	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **SDG**
Tetrachloroethene	ND	µg/L		0.20	1.0	4/15/2010 12:54:00 PM
Toluene	ND	µg/L		0.17	1.0	4/15/2010 12:54:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/15/2010 12:54:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/15/2010 12:54:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/15/2010 12:54:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/15/2010 12:54:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/15/2010 12:54:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/15/2010 12:54:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/15/2010 12:54:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/15/2010 12:54:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/15/2010 12:54:00 PM
Surr: 1,2-Dichloroethane-d4	100	%REC			80-120	4/15/2010 12:54:00 PM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	4/15/2010 12:54:00 PM
Surr: Dibromofluoromethane	102	%REC			80-120	4/15/2010 12:54:00 PM
Surr: Toluene-d8	101	%REC			88-110	4/15/2010 12:54:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 Phone: 800-999-0105 Fax: 304-255-2572 www.reiclabs.com

REIC

REI Consultants, Inc.
225 Industrial Park Rd.
P.O. Box 286, Beaver, WV 25813
Phone: 304-255-2500 or 800-999-0105
FAX: 304-255-2572
e-mail: rlabs@reiclabs.com

CHAIN OF CUSTODY RECORD NO. 287166

CLIENT: Macon Co Dept of SWM
ADDRESS: 109 Sierra Drive
CITY/STATE/ZIP: Franklin N.C 28734
BILL TO:
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON: Chris Stahl
TELEPHONE #: 828-439-2100
FAX #:
E-MAIL ADDRESS:
SITE ID & STATE: Old Franklin L.F/N.C
PROJECT ID: Old Franklin Landfill
SAMPLER: McBride/Farley/Kesterson

SAMPLE LOG AND ANALYSIS REQUEST

TURNAROUND TIME REQUIREMENTS
REGULAR: ✓
*RUSH: ___ 5-Day ___ 3-Day ___ 2-Day ___ 1-Day
*Rush work needs prior Laboratory approval and will include surcharges

PRESERVATIVES
0 No Preservative
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

PRESERVATIVE CODES — NOTE PRESERVATIVES →

ANALYSIS REQUESTED & METHOD: N.C Appendix I; TSS; N.C Appendix I VOCs

SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MATRIX	SAMPLE COMP / GRAB	N.C Appendix I	TSS	N.C Appendix I VOCs	COMMENTS
MW-1	6	4-13-10 1208	H2O	Grab	X	X		Analyze Dis Metals For Any total Metal detections
MW-3		1256						
MW-6		0915						
MW-6CR		0930						
MW-7		1119						
MW-7C		1140						
MW-10		1046						
Haire		0945						
MW-10 Dup	18	1046						
Trip Blank #3	1-VOA						X	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
R Farley	4-15-10 0945		4-15-10 945				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Temperature Upon Arrival 4.0 °C			

☐ FAX Results ☐ Email Results

APPENDIX B:

Macon County Solid Waste Authority

Old Franklin Landfill

Field Sample Logs

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-1

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked		x	Concrete/Grout Pad Present		x
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 11:45 **Weather Conditions:** Sunny 70°F

Static Depth (Depth to Water)	25.90	(Ft)	Volume	10.41	(Liters)
Well Depth	43.89	(Ft)	3 Volumes	31.24	(Liters)
Water Column Height	17.99	(Ft)	Volume Purged	32.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
11:49	6.33	555.0	16.3	1.43	1
11:52	6.36	556.0	16.1	28.40	6
11:55	6.35	562.0	16.1	91.10	12
11:57	6.35	559.0	16.2	102.00	18
12:00	6.36	560.0	16.2	111.00	24
12:03	6.37	560.0	16.2	99.30	30
12:04		Finished Purging			32

SAMPLING DATA

Date: 4/13/2010 **Time:** 12:08

Method: Teflon Bailer **Sampling Depth:** 26.04'

pH: 6.34 *(SU)* **Conductivity:** 560 *(umhos/cm)*

Temperature: 16.8 *(°C)* **Turbidity:** 104 *(NTU)*

Odor and Physical Appearance of Sample:

Cloudy - No Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-3

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 12:32 **Weather Conditions:** Sunny 83°F

Static Depth (Depth to Water)	49.00	(Ft)	Volume	8.15	(Liters)
Well Depth	63.08	(Ft)	3 Volumes	24.45	(Liters)
Water Column Height	14.08	(Ft)	Volume Purged	25.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
12:36	6.34	280.0	17.3	18.07	1
12:37	6.30	312.0	16.1	107.00	5
12:39	6.33	324.0	15.4	280.00	10
12:42	6.33	334.0	15.5	340.00	15
12:44	6.30	355.0	15.3	453.00	20
12:46	6.32	354.0	15.4	608.00	25
12:46		Finished Purging			25

SAMPLING DATA

Date: 4/13/2010 **Time:** 12:56

Method: Teflon Bailer **Sampling Depth:** 50.50'

pH: 6.29 *(SU)* **Conductivity:** 348 *(umhos/cm)*

Temperature: 16.8 *(°C)* **Turbidity:** 395 *(NTU)*

Odor and Physical Appearance of Sample:

Cloudy - No Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-6

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 08:05 **Weather Conditions:** Sunny 43°F

Static Depth (Depth to Water)	33.21	(Ft)	Volume	7.12	(Liters)
Well Depth	45.52	(Ft)	3 Volumes	21.38	(Liters)
Water Column Height	12.31	(Ft)	Volume Purged	18.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
08:10	5.21	75.0	13.2	17.33	1
08:11	5.18	69.9	13.8	>800	3
08:13	5.28	71.8	14.1	>800	6
08:14	5.23	72.4	14.3	>800	9
08:16	5.34	72.9	14.4	>800	12
08:18	5.31	73.3	14.0	>800	15
08:20	5.33	73.7	14.3	>800	18

SAMPLING DATA

Date: 4/13/2010 **Time:** 09:15

Method: Teflon Bailer **Sampling Depth:** 33.50'

pH: 5.64 *(SU)* **Conductivity:** 74.3 *(umhos/cm)*

Temperature: 14.7 *(° C)* **Turbidity:** 793 *(NTU)*

Odor and Physical Appearance of Sample:

Cloudy - No Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-6CR

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 08:00 **Weather Conditions:** Sunny 43°F

Static Depth (Depth to Water)	43.83	(Ft)	Volume	58.12	(Liters)
Well Depth	144.22	(Ft)	3 Volumes	174.37	(Liters)
Water Column Height	100.39	(Ft)	Volume Purged	160.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
08:27	6.50	512.0	13.9	5.08	1
08:36	6.69	517.0	14.6	2.32	32
08:47	6.69	625.0	14.8	1.69	64
08:58	6.70	557.0	14.8	3.00	96
09:11	6.71	504.0	15.0	1.49	128
09:23	6.68	474.0	15.1	1.85	160
09:23		Finished Purging			160

SAMPLING DATA

Date: 4/13/2010 **Time:** 09:30

Method: Teflon Bailer **Sampling Depth:** 91.91'

pH: 6.61 *(SU)* **Conductivity:** 473 *(umhos/cm)*

Temperature: 14.8 *(°C)* **Turbidity:** 7.67 *(NTU)*

Odor and Physical Appearance of Sample:

Clear - Slight Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-7

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 11:08 **Weather Conditions:** Sunny 68°F

Static Depth (Depth to Water)	14.73	(Ft)	Volume	5.01	(Liters)
Well Depth	23.39	(Ft)	3 Volumes	15.04	(Liters)
Water Column Height	8.66	(Ft)	Volume Purged	15.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
11:11	5.89	310.0	14.7	11.59	1
11:12	5.82	303.0	14.3	>800	3
11:13	5.81	297.0	14.0	>800	6
11:14	5.81	292.0	13.9	>800	9
11:15	5.79	294.0	14.0	>800	12
11:17	5.70	290.0	14.1	>800	15
11:17		Finished Purging			15

SAMPLING DATA

Date: 4/13/2010 **Time:** 11:19

Method: Teflon Bailer **Sampling Depth:** 16.81'

pH: 5.77 *(SU)* **Conductivity:** 301 *(umhos/cm)*

Temperature: 14.3 *(°C)* **Turbidity:** >800 *(NTU)*

Odor and Physical Appearance of Sample:

Cloudy - No Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-7C

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 11:04 **Weather Conditions:** Sunny 68°F

Static Depth (Depth to Water)	13.90	(Ft)	Volume	23.42	(Liters)
Well Depth	54.35	(Ft)	3 Volumes	70.26	(Liters)
Water Column Height	40.45	(Ft)	Volume Purged	72.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
11:24	6.46	626.0	14.3	3.17	1
11:26	6.64	644.0	15.5	4.60	13
11:28	6.09	653.0	15.8	7.94	26
11:30	6.08	665.0	15.9	10.80	39
11:32	6.03	671.0	16.0	4.28	52
11:34	6.05	676.0	16.1	4.69	65
11:35		Finished Purging			72

SAMPLING DATA

Date: 4/13/2010 **Time:** 11:40

Method: Teflon Bailer **Sampling Depth:** 14.06'

pH: 6.05 *(SU)* **Conductivity:** 6.76 *(umhos/cm)*

Temperature: 16.4 *(°C)* **Turbidity:** 1.68 *(NTU)*

Odor and Physical Appearance of Sample:

Clear - No Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Franklin Landfill **Project :** 1st Semi 2010 **Well #:** MW-10

Contact Person: Chris Stahl **Phone #:** 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/13/2010 09:48 **Weather Conditions:** Sunnly 65°F

Static Depth (Depth to Water)	10.89	(Ft)	Volume	56.28	(Liters)
Well Depth	108.10	(Ft)	3 Volumes	168.85	(Liters)
Water Column Height	97.21	(Ft)	Volume Purged	160.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
09:58	6.36	472.0	13.4	1.37	1
10:05	6.48	472.0	13.9	16.63	32
10:12	6.37	484.0	14.2	3.54	64
10:21	6.31	503.0	14.3	0.92	96
10:29	6.37	508.0	14.2	3.66	128
10:38	6.38	504.0	14.2	1.72	160
10:38		Finished Purging			160

SAMPLING DATA

Date: 4/13/2010 **Time:** 10:46

Method: Teflon Bailer **Sampling Depth:** 13.81'

pH: 6.37 / DUP 6.37 *(SU)* **Conductivity:** 509 / DUP 507 *(umhos/cm)*

Temperature: 14.8 / DUP 14.8 *(°C)* **Turbidity:** 0.57 / DUP 0.63 *(NTU)*

Odor and Physical Appearance of Sample:

Clear - Slight Odor

Comments:

Sampled By: Randy Farley / A. McBride / J. Kesterson

Sampler's Signature: Allen McBride **Date:** 4/13/2010

APPENDIX A:

Macon County Solid Waste Authority

Old Franklin Landfill

Groundwater Flow Rate Calculations

Old Franklin Landfill

Flow Path		
X	Y	Distance (ft)
-1550.4	63.8	
-1520.4	73.3	31.5
-1495.9	79.0	25.2
-1468.7	81.8	27.4
-1440.6	81.2	28.0
-1403.4	77.5	37.4
-1339.8	72.6	63.8
-1285.4	67.6	54.6
-1242.3	63.6	43.3
-1202.7	58.4	39.9
-1163.3	51.0	40.1
-1119.4	41.6	44.8
-1077.7	29.7	43.4
-1043.2	16.3	37.1
-1004.4	-5.2	44.3
-979.6	3.4	26.2
-948.0	3.9	31.7
-917.0	4.3	30.9
-902.8	1.1	14.5
-886.5	2.2	16.3
-870.6	3.6	16.0
-855.2	5.7	15.5
-841.9	3.9	13.4
-829.0	4.1	12.9
-819.6	5.1	9.5
-813.4	7.9	6.9

Hydraulic gradient, I =	0.119	ft / ft
K =	4.8E-04	cm / sec
n_{eff} =	0.3	
V = KI / n_{eff} =	200	ft / yr

Horizontal Distance	754.7	ft
Vertical Difference	90	ft

TABLE 2:

Macon County Solid Waste Authority

Old Franklin Landfill

Summary of Detections (Analytical Results)

TABLE 2: SUMMARY OF DETECTIONS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-6A	MW-6 CR	MW-7	MW-7A	MW-7C	MW-8	MW-9
1,4-Dichlorobenzene	6	1	12.9	NS	2.5	NS	NS		NS	11.6		NS	6.7	NS	NS
Benzene	1	1	3.7	NS		NS	NS		NS	1.6		NS		NS	NS
Chlorobenzene	50	3	3.4	NS		NS	NS		NS			NS	5.3	NS	NS
cis-1,2-Dichloroethene	70	5	13.6	NS		NS	NS		NS	13.3		NS		NS	NS
Methylene chloride	5	1		NS		NS	NS		NS			NS		NS	NS
Tetrachloroethene	0.7	1		NS		NS	NS		NS			NS		NS	NS
Trichloroethene	3	1	1.5	NS		NS	NS		NS	1.2		NS		NS	NS
Xylenes (total)	500	5		NS		NS	NS		NS			NS		NS	NS
METALS	**NC 2L**	**SWSL**	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-6A**	**MW-6 CR**	**MW-7**	**MW-7A**	**MW-7C**	**MW-8**	**MW-9**
Arsenic	10	10		NS		NS	NS		NS			NS		NS	NS
Barium	700	100	261	NS	334	NS	NS	283	NS	278	1330	NS	480	NS	NS
Beryllium	NL	1		NS		NS	NS		NS			NS		NS	NS
Cadmium	2	1		NS	1.6	NS	NS		NS			NS		NS	NS
Chromium	10	10		NS		NS	NS		NS			NS		NS	NS
Cobalt	NL	10		NS	21.4	NS	NS		NS	14.3	22.6	NS	15.9	NS	NS
Copper	1000	10		NS	18.9	NS	NS		NS		26.5	NS		NS	NS
Lead	15	10		NS		NS	NS		NS			NS		NS	NS
Nickel	100	50		NS		NS	NS		NS			NS		NS	NS
Vanadium	NL	25		NS		NS	NS		NS			NS		NS	NS
Zinc	1000	10		NS	14.6	NS	NS	11.2	NS		46.5	NS		NS	NS
Total Suspended Solids (TSS)		1	78	NS	299	NS	NS	182	NS	5	1500	NS	5	NS	NS

NOTES:

1. *Solid Waste Section Limit (SWSL)*
2. *NL – Constituent does not have a NC2L Standard*
3. *Constituents that exceed the NC2L Standard are Highlighted in Red*
4. *DRY – Well was dry during sampling event*
5. *All constituents measured in µg/L*
6. *Only compounds detected above the laboratory SWSL are listed*
7. *NS – Not Sampled*

TABLE 2: SUMMARY OF DETECTIONS

OLD FRANKLIN LANDFILL: PERMIT NO: 57-01

FRANKLIN, NORTH CAROLINA

VOCs	NC 2L	SWSL	MW-10	Dowdle	Haire	Keener
1,4-Dichlorobenzene	6	1	4.0	NS		NS
Benzene	1	1		NS		NS
Chlorobenzene	50	3		NS		NS
cis-1,2-Dichloroethene	70	5		NS		NS
Methylene chloride	5	1		NS		NS
Tetrachloroethene	0.7	1		NS		NS
Trichloroethene	3	1		NS		NS
Xylenes (total)	500	5		NS		NS
METALS	**NC 2L**	**SWSL**	**MW-10**	**Dowdle**	**Haire**	**Keener**
Arsenic	10	10		NS		NS
Barium	700	100	106	NS		NS
Beryllium	NL	1		NS		NS
Cadmium	2	1		NS		NS
Chromium	10	10		NS		NS
Cobalt	NL	10		NS		NS
Copper	1000	10		NS	112	NS
Lead	15	10		NS		NS
Nickel	100	50		NS		NS
Vanadium	NL	25		NS		NS
Zinc	1000	10		NS	45.8	NS
Total Suspended Solids (TSS)		1	11	NS	1	NS

NOTES:

1. *Solid Waste Section Limit (SWSL)*
2. *NL – Constituent does not have a NC2L Standard*
3. *Constituents that exceed the NC2L Standard are Highlighted in Red*
4. *DRY – Well was dry during sampling event*
5. *All constituents measured in µg/L*
6. *Only compounds detected above the laboratory SWSL are listed*
7. *NS – Not Sampled*