Old Highlands Landfill

Permit No. 57-02

Highlands C & D Landfill

Permit No. 57-04

Water Quality Monitoring Program
2nd Semi-Annual 2008 Report

March 2009

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

Member:

American Chemical Society

Association of Official Analytical Chemists

Petroleum Marketers Association

Rural Water Association

Mining & Reclamation Association

American Water Works Association

The Solid Waste Association of North America

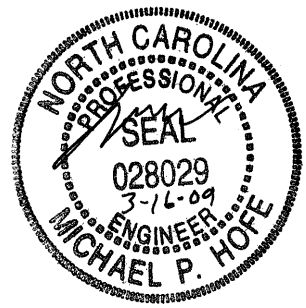
West Virginia Manufacturers Association

Association of West Virginia Solid Waste Authorities

West Virginia Oil Marketers & Grocers Association

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.

Respectfully submitted,



Michael P. Hofe, PE (NC #028029)
Manager
Environmental Monitoring & Investigative Assessment Department

Table of Contents

		Page No.
1.0	EXECUTIVE SUMMARY	1
2.0	INTRODUCTION	5
3.0	HYDROLOGIC EVALUATION	6
4.0	SAMPLING AND LABORATORY ANALYSIS	8
5.0	STATISTICAL ANALYSIS	11
6.0	CONCLUSIONS	13
7.0	FIGURE	
8.0	TABLES	

APPENDICES

A. Groundwater Flow Rate

B. Field Sample Logs

C. Laboratory Reports and Chain-of-Custody

D. Historical Laboratory Results

E. Statistical Analysis

1.0 EXECUTIVE SUMMARY

REI Consultants, Inc. (REIC) has prepared the 2nd Semi-Annual Water Quality Monitoring Report for 2008 for the Old Highlands Landfill, Permit No. 57-02, and Highlands C&D Landfill, Permit No. 57-04, located in Macon County, North Carolina. Old Highlands Landfill is a closed municipal solid waste disposal facility, while Highlands C&D Landfill is an active construction and demolition (C&D) landfill. Water quality monitoring at the facilities is performed on a semi-annual basis and consists of sampling groundwater monitoring wells and surface water locations in the vicinity of the landfills, a water supply well located on the landfill property, and residential water supply sources adjacent to the facility. This report has been prepared in accordance with NCAC 13B Section .1632(j).

The 2nd semi-annual monitoring event was performed on October 13, 2008. Groundwater samples were collected from thirteen (13) monitoring wells associated with Old Highlands Landfill and two (2) monitoring wells associated with Highlands C&D Landfill. In addition, samples were collected from one (1) surface water location and three (3) water supply sources. All samples were analyzed for North Carolina Appendix I parameters. Results of laboratory analysis, statistical analysis, and hydrologic evaluations are given below for each facility.

Old Highlands Landfill

Volatile organic compounds (VOCs) that were detected in monitoring wells above Solid Waste Section Limits (SWSLs) are given in the following table:

Parameter	Monitoring Well
Benzene	MW-1, MW-4A, MW-5C, MW-7
Chlorobenzene	MW-1, MW-2, MW-4A
Chloroethane	MW-2, MW-4A
1,4-Dichlorobenzene	MW-1, MW-2, MW-4A, MW-7
1,1-Dichloroethane	MW-7
cis-1,2-Dichloroethene	MW-1, MW-2, MW-5, MW-5A, MW-5B, MW-5C, MW-7
Ethylbenzene	MW-4A, MW-7
Toluene	MW-7
Vinyl Chloride	MW-1, MW-2, MW-4A, MW-5, MW-5B, MW-5C, MW-7
Xylenes	MW-7

The following VOCs were detected above North Carolina groundwater standards in monitoring wells:

Parameter	Monitoring Well
Benzene	MW-1, MW-4A, MW-5C, MW-7
1,4-Dichlorobenzene	MW-1, MW-4A, MW-7
Vinyl Chloride	MW-1, MW-2, MW-4A, MW-5, MW-5B, MW-5C, MW-7

Statistical analysis of monitoring well analytical results for metals yielded the following elevations:

Parameter	Monitoring Well
Arsenic	MW-5B
Cobalt	MW-7

No metals were detected above North Carolina groundwater standards in the monitoring well samples with the exception of lead in wells MW-5B, MW-7, and MW-8.

Samples were collected from one surface water location, designated as Spring B. No Appendix I parameters were detected Spring B. Spring A was dry during the event.

Two adjacent residential water supply sources were sampled, designated as Chastain Well and McCall Well. No Appendix I parameters were detected in the residential water supply samples with the exception of copper and zinc in the McCall Well, and copper in the Chastain Well. The concentrations of copper and zinc were below the respective North Carolina groundwater standards. Chastain Spring was dry during the event.

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 the uppermost aquifer in the vicinity of the Old Highlands Landfill. Groundwater in the uppermost aquifer appears to be flowing to the south, east, and northeast in the vicinity of the waste area. The average groundwater flow rate across the landfill has been estimated at 73 feet/year.

Highlands C&D Landfill

Samples were collected from two monitoring wells and a water supply well located on the landfill property. No Appendix I parameters were detected in any of the samples. Surface water location SW-1 was dry during the event.

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 the uppermost aquifer in the vicinity of the Highlands C&D Landfill. Groundwater in the uppermost aquifer appears to be flowing to the northeast in the vicinity of the waste area. The average groundwater flow rate across the landfill has been estimated at 61 feet/year.

2.0 INTRODUCTION

REI Consultants, Inc. (REIC) has prepared the 2nd Semi-Annual Water Quality Monitoring Report for 2008 for the Old Highlands Landfill, Permit No. 57-02, and Highlands C&D Landfill, Permit No. 57-04. The two facilities, which are located approximately two miles south of Highlands, North Carolina, are situated adjacent to each other on a tract of property owned by Macon County. Old Highlands Landfill is a closed municipal solid waste disposal facility, and Highlands C&D Landfill is an active construction and demolition (C&D) landfill.

The groundwater monitoring well network at the Old Highlands Landfill consists of wells MW-1, MW-2, MW-4, MW-4A, MW-5, MW-5A, MW-5B, MW-5C, MW-6, MW-6A, MW-6C, MW-7, and MW-8. For the Highlands C&D Landfill, groundwater monitoring wells MW-A and MW-B are sampled (see Figure, Section 7.0, for locations). Monitoring well MW-8 is located hydraulically upgradient of the waste areas, and therefore is designated as the background well for both facilities. All wells are sampled semi-annually, and are analyzed for North Carolina Appendix I parameters.

In addition to the above monitoring wells, samples are collected from three (3) surface water locations, designated as SW-1, Spring A, and Spring B; one (1) on-site water supply well, WSW-1; and three (3) residential water supply source locations adjacent to the landfill property, designated as Chastain Spring, Chastain Well, and McCall Well. All samples are analyzed semi-annually for Appendix I parameters. A fourth residential water supply well, designated the Hicks Well, has not been sampled since October, 2002; the associated residence is no longer occupied.

For the 2nd semi-annual 2008 monitoring event, field sampling was performed on October 13, 2008. Samples were collected from all of the above locations with the

exception of Spring A, Chastain Spring, and SW-1, all of which were dry during the event.

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 2nd semi-annual monitoring event was contoured to represent the potentiometric surface of the uppermost aquifer in the vicinity of the landfill. Elevation data and the influence of topographical features were utilized to estimate contours. A copy of the resulting potentiometric map is included in this report (see Figure).

The majority of the wells at the facility appear to be screened in the soil/saprolite layer overlying the resident bedrock. Wells MW-1, MW-2, and MW-5B are installed in bedrock. Bedrock aquifer potentiometric contours were not plotted due to the lack of a sufficient number of data points to accurately portray the deeper aquifer.

Generally, groundwater appears to be flowing to the south, east, and northeast in the vicinity of the Old Highlands Landfill waste area. In the vicinity of the Highlands C&D Landfill, groundwater appears to be flowing to the northeast.

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 across 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 across each landfill at the site. The average groundwater flow rate under the closed landfill has been estimated

at 73 feet/year. The average groundwater flow rate in the vicinity of the C&D landfill is estimated at 61 feet/year. Groundwater flow rate calculations are included in Appendix A.

4.0 SAMPLING AND LABORATORY ANALYSIS

Monitoring wells at the Old Highlands and Highlands C&D landfills 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 2nd semi-annual sampling event. Several groundwater samples were noted as exhibiting very high turbidity. A summary of field sampling information is included in Section 8.0, 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. For each facility, laboratory results are summarized as follows.

Old Highlands Landfill

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

Parameter	Monitoring Well
Benzene	MW-1, MW-4A, MW-5C, MW-7
Chlorobenzene	MW-1, MW-2, MW-4A, MW-7
Chloroethane	MW-2, MW-4A
1,4-Dichlorobenzene	MW-1, MW-2, MW-4A, MW-7
1,1-Dichloroethane	MW-7
cis-1,2-Dichloroethene	MW-1, MW-2, MW-5, MW-5A, MW-5B, MW-5C, MW-7
Ethylbenzene	MW-4A, MW-7
Toluene	MW-7
Vinyl Chloride	MW-1, MW-2, MW-4A, MW-5, MW-5B, MW-5C, MW-7
Xylenes	MW-7

The following VOCs were detected above North Carolina groundwater standards in monitoring wells:

Parameter	**Monitoring Well**
Benzene	MW-1, MW-4A, MW-5C, MW-7
1,4-Dichlorobenzene	MW-1, MW-4A, MW-7
Vinyl Chloride	MW-1, MW-2, MW-4A, MW-5, MW-5B, MW-5C, MW-7

No metals were detected above North Carolina groundwater standards in the monitoring wells with the exception of lead in wells MW-5B, MW-7, and MW-8.

Samples were collected from one surface water location, designated as Spring B. Spring A was dry during the event. No Appendix I parameters were detected Spring B. Two adjacent residential water supply sources were sampled, designated as Chastain Well and McCall Well. Chastain Spring was dry during the event. No Appendix I parameters were detected in the residential water supply samples with the exception of copper and zinc in the McCall Well, and copper in the Chastain Well. The concentrations of copper and zinc were below North Carolina groundwater standards.

A summary of laboratory results in included in Table 2, in Section 8.0. 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 results are given in Appendix D.

Highlands C&D Landfill

Samples were collected from two monitoring wells and a water supply well located on the landfill property. Surface sample location SW-1 was dry during the event. No Appendix I parameters were detected above SWSLs in wells MW-A, MW-B, and WSW-1. Laboratory reports and chain-of-custody records are included in Appendix C.

5.0 STATISTICAL ANALYSIS

A statistical analysis was conducted for the 2nd semi-annual 2008 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 from the upgradient well. Prediction intervals were constructed as follows. For constituents where more than 15 but less than 50 percent of the data were below practical quantitation limits (PQLs)/SWSLs parametric prediction intervals modified by Cohen's Adjustment were utilized. Tables from "Statistical Methods for Groundwater Monitoring", (Robert D. Gibbons, 1994) were utilized to calculate parametric limits (see Appendix F). For constituents where greater than 50 percent of the data were below PQLs/SWSLs, a non-parametric prediction limit was constructed using the maximum historical background measurement. Organic constituents were designated as significantly elevated when they were quantified at or above PQLs/SWSLs.

No statistical elevations were noted for any parameter in any of the samples collected from the wells associated with the Highlands C&D Landfill. For the Old Highlands Landfill, a summary of the VOCs detected above SWSLs in the monitoring wells is as follows:

Parameter	**Monitoring Well**
Benzene	MW-1, MW-4A, MW-5C, MW-7
Chlorobenzene	MW-1, MW-2, MW-4A, MW-7
Chloroethane	MW-2, MW-4A
1,4-Dichlorobenzene	MW-1, MW-2, MW-4A, MW-7
1.1-Dichloroethane	MW-7
cis-1,2-Dichloroethene	MW-1, MW-2, MW-5, MW-5A, MW-5B, MW-5C, MW-7
Ethylbenzene	MW-4A, MW-7
Toluene	MW-7
Vinyl Chloride	MW-1, MW-2, MW-4A, MW-5, MW-5B, MW-5C, MW-7
Xylenes	MW-7

Statistical analysis of monitoring well analytical results for metals yielded the following elevations:

Parameter	**Monitoring Well**
Arsenic	MW-5B
Cobalt	MW-7

Statistical analyses are included in Appendix E.

6.0 CONCLUSIONS

- The 2nd semi-annual 2008 water quality monitoring event has been performed for the Old Highlands and Highlands C&D Landfills in accordance with State and Federal Guidelines.

- The direction of groundwater flow in the uppermost aquifer in the vicinity of the Old Highlands Landfill waste area is generally to the south, east, and northeast. In the vicinity of the Highlands C&D Landfill, groundwater appears to be flowing to the northeast.

- The average groundwater flow rate under the closed landfill has been estimated at 73 feet/year. The average groundwater flow rate in the vicinity of the C & D landfill has been estimated at 61 feet/year.

- Several VOCs continue to be detected in compliance wells associated with the Old Highlands Landfill.

- The following VOCs were detected above North Carolina groundwater standards in compliance wells associated with the Old Highlands Landfill: benzene in wells MW-1, MW-4A, MW-5C, and MW-7; 1,4-dichlorobenzene in wells MW-1, MW-4A, and MW-7; and vinyl chloride in wells MW-1, MW-2, MW-4A, MW-5, MW-5B, MW-5C, and MW-7.

- Statistical analysis of analytical results for metals for monitoring wells associated with Old Highlands Landfill yielded the following elevations: arsenic in well MW-5B and cobalt in well MW-7. No metals were statistically elevated in any other sample.

- No metals were detected above North Carolina groundwater standards in the monitoring wells with the exception of lead in wells MW-5B, MW-7, and MW-8.

- No Appendix I parameters were detected in Spring B. Spring A was dry during the event.

- Copper and zinc were detected below North Carolina groundwater standards in the McCall Well residential water supply sample. In addition, copper was detected below the North Carolina groundwater standard in the Chastain Well sample. Chastain Spring was dry during the event.

- No Appendix I parameters were detected in samples collected from the monitoring wells and water supply well associated with the Highlands C&D Landfill. Surface water sample SW-1 was dry during the event.

7.0 Figure

MACON COUNTY, NORTH CAROLINA
OLD HIGHLANDS LANDFILL, PERMIT NO. 57-02
HIGHLANDS C&D LANDFILL, PERMIT NO. 57-04

WATER QUALITY MONITORING PROGRAM
2ND SEMIANNUAL 2008 EVENT
GROUNDWATER POTENTIOMETRIC CONTOURS

LEGEND

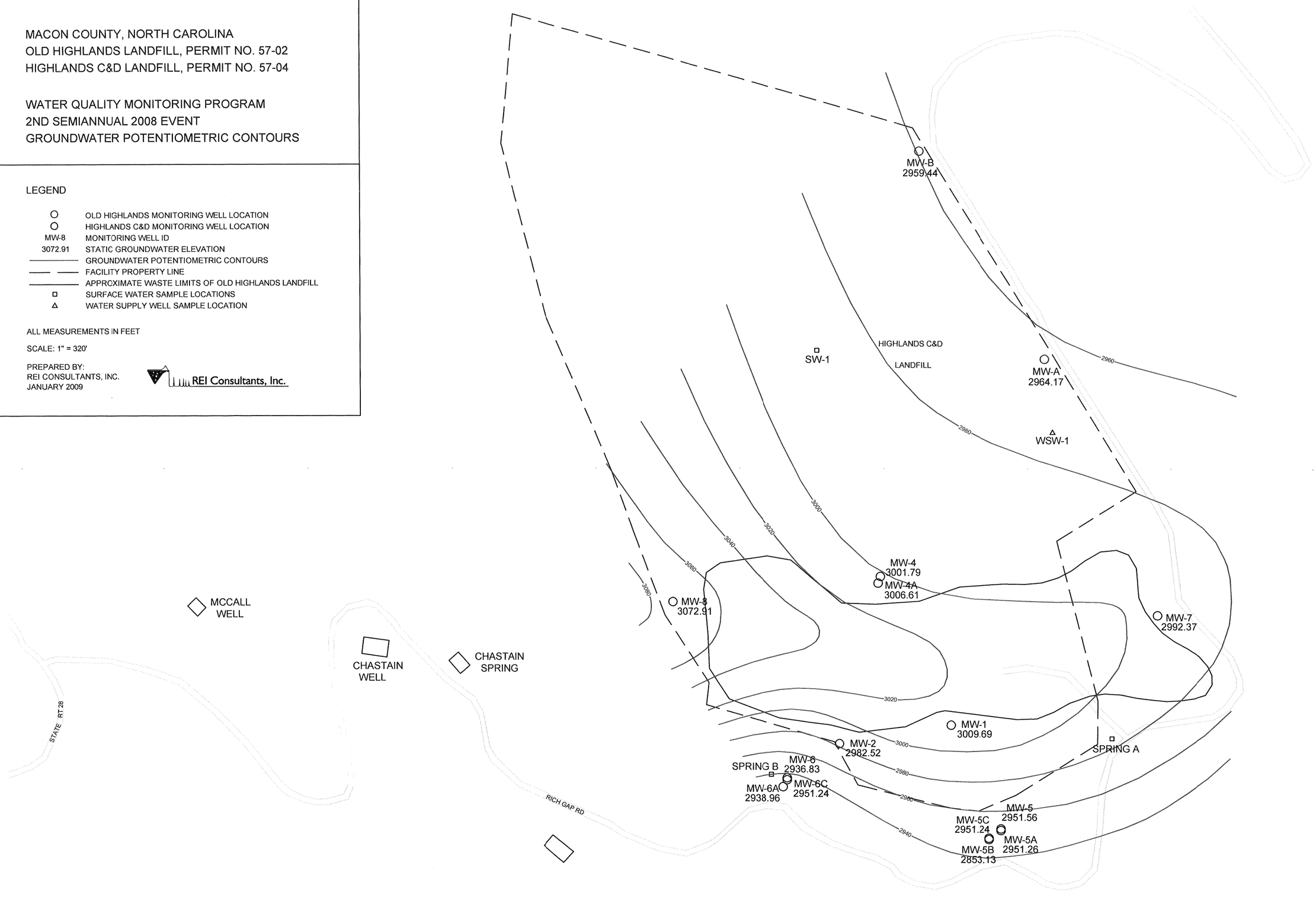
○	OLD HIGHLANDS MONITORING WELL LOCATION
○	HIGHLANDS C&D MONITORING WELL LOCATION
MW-8	MONITORING WELL ID
3072.91	STATIC GROUNDWATER ELEVATION
———	GROUNDWATER POTENTIOMETRIC CONTOURS
—— — ——	FACILITY PROPERTY LINE
———	APPROXIMATE WASTE LIMITS OF OLD HIGHLANDS LANDFILL
□	SURFACE WATER SAMPLE LOCATIONS
△	WATER SUPPLY WELL SAMPLE LOCATION

ALL MEASUREMENTS IN FEET

SCALE: 1" = 320'

PREPARED BY:
REI CONSULTANTS, INC.
JANUARY 2009

REI Consultants, Inc.



8.0 Tables

Table 1

Old Highlands Landfill

Permit: 57-02

2nd Semi-Annual Monitoring 2008

-Sampling Information-

Sampling Date: 10-13-08
Sampler(s): R Farley/ A McBride/J. Kesterson
Weather Conditions: Sunny 68°F

		Sampling Log Summaries																	
Property	**Units**	**MW-1**	**MW-2**	**MW-4**	**MW-4A**	**MW-5**	**MW-5A**	**MW-5B**	**MW-5C**	**MW-6**	**MW-6A**	**MW-6C**	**MW-7**	**MW-8**	**Spring A**	**Spring B**	**Chastain Spring**	**Chastain Well**	**McCall Well**
Sampling Depth	**Feet**	40.50	66.10	21.00	12.53	19.54	18.18	190.75	36.45	21.00	10.12	33.58	35.62	41.10	-	-	-	-	-
Static Depth	**Feet**	38.43	62.30	17.76	12.37	18.26	18.10	113.31	18.35	11.77	9.80	21.37	32.53	40.45	-	-	-	-	-
Well Depth	**Feet**	44.70	71.90	25.00	49.95	27.60	27.67	196.55	52.00	23.30	17.68	39.65	37.88	43.10	-	-	-	-	-
Water Column Height	**Feet**	6.27	9.60	7.24	37.58	9.34	9.57	83.24	33.65	11.53	7.88	18.28	5.35	2.65	-	-	-	-	-
Volume Purged	**Liters**	12	20	13	60	6	10	58	55	8	14	19	9	5	-	-	-	-	-
Purging Status	**-----**	Finished	Finished	Finished	Finished	Purged Dry	Purged Dry	Purged Dry	Finished	Purged Dry	Finished	Purged Dry	Purged Dry	Finished	-	-	-	-	-
		Physical Properties																	
pH	**SU**	5.82	5.52	5.88	5.84	5.64	5.70	9.78	6.91	5.49	5.96	6.10	5.98	5.51	NS	8.38	NS	6.31	6.54
Temperature	**°C**	15.4	14.9	12.9	13.3	14.7	14.8	15.1	14.6	16.1	17.2	15.2	15.0	13.7	NS	17.1	NS	15.9	91.3
Conductivity	**umhos/cm**	577	227	423	968	122.4	120.7	541.0	399	26.7	25	82.0	865	22	NS	21.9	NS	22.2	22.3
Turbidity	**NTU**	69.4	81.7	33.4	6.10	18.91	5.27	136	53.3	37.2	58.4	13.23	96.1	>200	NS	8.31	NS	0.54	1.12
Appearance	**-----**	Cloudy	Cloudy	Cloudy	Clear	Clear		Cloudy	Cloudy	Cloudy	Cloudy	Clear	Cloudy	Cloudy	NS	Clear	NS	Clear	Clear
		no odor	slight odor	no odor	no odor	no odor		no odor	no odor	no odor	no odor	no odor	no odor	no odor	NS	no odor	NS	no odor	no odor
TSS	**mg/L**	71	143	11	9	5	51	216	109	68	226	7	1350	1160	NS	11	NS	1	8

NS - No sample

Table 1 (cont'd)

Highlands C & D Landfill

Permit No. 57-04
2nd Semi-Annual Monitoring 2008

-Sampling Information-

Sampling Date: 10-13-08
Sampler(s): R Farley/ A McBride/J. Kesterson
Weather Conditions: Cloudy 60°F

Property	Units	MW-A	MW-B	WSW-1	SW-1
Sampling Depth	**Feet**	8.23	9.41	-	-
Static Depth	**Feet**	8.03	9.26	-	-
Well Depth	**Feet**	14.54	20.15	-	-
Water Column Height	**Feet**	6.51	10.89	-	-
Volume Purged	**Liters**	12	20	-	-
Purging Status	**-----**	Finished	Finished	-	-
		Physical Properties			
pH	**SU**	5.23	5.42	6.41	NS
Temperature	**°C**	15.4	14.7	14.1	NS
Conductivity	**umhos/cm**	34.7	296	77.5	NS
Turbidity	**NTU**	18.19	117.0	2.29	NS
Appearance	**-----**		Cloudy	Clear	NS
			no odor	no odor	NS
TSS	**mg/L**	9	100	2	NS

NS - No sample

Table 2

Old Highlands Landfill

Permit: #57-02

2nd Semi Annual 2008

-Summary of Detections-

		Summary of Detections by Monitoring Well/Sampling Point																			
	Parameter	**NC 2L**	**SWSL**	**MW-1**	**MW-2**	**MW-4**	**MW-4A**	**MW-5**	**MW-5A**	**MW-5B**	**MW-5C**	**MW-6**	**MW-6A**	**MW-6C**	**MW-7**	**MW-8**	**Spring A**	**Spring B**	**Chastain Spring**	**Chastain Well**	**McCall Well**
VOCs	Benzene	**1**	1	3.3			3.4				1.4				4.7						
	Chlorobenzene	**50**	3	2.2	1.1		5.7								1.3						
	cis-1,2-Dichloroethene	**70**	5	1.2	4.2			32.0	1.7	27.4	13.3				44.7						
	Chloroethane	**2800**	10		2.1		5.1														
	1,4-Dichlorobenzene	**1.4**	1	4.6	1.0		3.6								9.2				No Sample		
	1,1-Dichloroethane	**70**	5												1.3						
	Ethylbenzene	**550**	1				4.8								25.1						
	Toluene	**1000**	1												110						
	Vinyl chloride	**0.015**	1	14.0	3.5		8.1	48.7		4.2	48.4				932		No Sample				
	Xylenes	**530**	3												64.3						
Total Metals	Arsenic	**50**	10							28.9											
	Barium	**2000**	100	169		104	267								183	436					
	Beryllium	**NL**	1													1.8					
	Cobalt	**NL**	10	52.2	15.2		12.5								89.3	21.2					
	Copper	**1000**	10													16.1				400	17.6
	Lead	**15**	10							17.0					17.6	19.8					
	Zinc	**1050**	10	24.7	37.7				11.6	22.7	12.4				92.8	20.0					54.5
	TSS			71	143	11	9	5	51	216	109	68	226	7	1350	1160		11		1	8

Footnotes:

SWSL - Solid Waste Section Limits
NL - constituent does not have a NC 2L Standard
BOLD red indicates that constituents exceeds NC 2L Standard
All constituents reported in ug/L.
Only constituents detected above laboratory SWSLs are listed.

Table 2 (cont'd)

Highlands C&D Landfill

Permit: #57-04

2nd Semi Annual 2008

-Summary of Detections-

	Summary of Detections by Monitoring Well						
	Parameter	**NC 2L**	**SWSL**	**MW-A**	**MW-B**	**SW-1**	**WSW-1**
VOCs	Acetone	**700**	100				
	Benzene	**1**	1				
	2-Butanone (MEK)	**4200**	100				
	cis-1,2-Dichloroethene	**70**	5			No Sample	
	1,4-Dichlorobenzene	**1.4**	1				
	Ethylbenzene	**550**	1				
	Toluene	**1000**	1				
	Vinyl chloride	**0.015**	1				
	Xylenes	**530**	3				
Total Metals	Arsenic	**50**	10				
	Beryllium	**NL**	1				
	Cobalt	**NL**	10				
	Copper	**1000**	10				
	Lead	**15**	10				
	Nickel	**100**	50				
	Zinc	**1050**	10				
	TSS			9	100		2

Footnotes:

SWSL - Solid Waste Section Limits

NL - constituent does not have a NC 2L Standard

BOLD red indicates that constituents exceeds NC 2L Standard

All constituents reported in ug/L.

Only constituents detected above laboratory SWSLs are listed.

Appendix A

Groundwater Flow Rate

Old Highlands
Flow Path

X	Y	Distance (ft)
2269.5	1015.4	
2307.6	1011.8	38.3
2364.6	1006.9	57.1
2426.4	1002.1	62.0
2542.7	996.0	116.4
2596.6	989.4	54.3
2654.7	979.7	58.9
2710.4	966.4	57.3
2755.3	952.4	46.9
2824.0	931.8	71.8
2899.7	909.4	79.0
3049.9	860.3	158.0
3142.0	825.8	98.3
3270.6	775.4	138.2
3348.1	746.9	82.6
3443.8	710.0	102.6
3488.8	689.8	49.3
3536.0	661.4	55.1
3573.0	631.1	47.8
3598.4	602.7	38.2
3616.0	577.3	30.9
3623.9	560.9	18.1
3642.6	517.3	47.5
3651.1	487.7	30.8
3662.6	438.6	50.4

Horizontal Distance	1589.8	ft
Vertical Difference	100	ft

Hydraulic gradient, I	0.063	ft/ft
K	2.8E-04	cm/sec
n_{eff}	0.25	
$V = KI/n_{eff}$	73	ft/yr

Highlands C&D
Flow Path

X	Y	Distance (ft)
2551.5	1506.7	
2630.0	1552.9	91.1
2703.0	1592.4	83.0
2736.4	1610.4	38.0
2830.3	1652.5	102.9
2916.1	1697.2	96.8
3007.8	1757.8	109.9
3076.9	1815.6	90.1
3130.7	1862.9	71.6
3240.5	1959.6	146.3
3390.1	2094.1	201.2
3474.1	2173.0	115.2

Horizontal Distance	1146.0	ft
Vertical Difference	60	ft

Hydraulic gradient, I	0.052	ft/ft
K	2.8E-04	cm/sec
n_{eff}	0.25	
$V = KI/n_{eff}$	61	ft/yr

Appendix B

Field Sample Logs

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Old Highlands Landfill	**Project :**	2nd Semi 2008	**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: 10-13-08 1041 **Weather Conditions:** Sunny 68°F

Static Depth (Depth to Water)	38.43 (Ft)	Volume	3.63 (Liters)
Well Depth	44.70 (Ft)	3 Volumes	10.89 (Liters)
Water Column Height	6.27 (Ft)	Volume Purged	12 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
1045	5.76	571	15.2	13.79	1
1046	5.77	580	14.8	111	3
1047	5.81	572	14.6	107	6
1048	5.77	573	14.5	94.8	9
1049	5.78	578	14.6	68.4	12
1049		Finished Purging			12

SAMPLING DATA

Date: 10-13-08 **Time:** 1055

Method: Teflon Bailer **Sampling Depth:** 40.50'

pH: 5.82/Dupe 5.82 **Conductivity:** 577/Dupe 573 **(umhos/cm)**

Temperature: 15.4/Dupe 15.3 (°C) **Turbidity:** 69.4/Dupe 55.5 **(NTU)**

Odor and Physical Appearance of Sample: Cloudy - no odor

Comments:

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

Sampler's Signature: Allen McBride **Date:** 10-13-08

REI Consultants, Inc. P.O. Box 286, Beaver, WV 25813 1-800-999-0105 fax: 1-304-255-2572 email: rlabs@reiclabs.com

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Old Highlands Landfill	**Project :**	2nd Semi 2008	**Well #:**	MW-2
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: 10-13-08 1015 **Weather Conditions:** Cloudy 65°F

Static Depth (Depth to Water)	62.30 (Ft)	Volume	5.55 (Liters)
Well Depth	71.90 (Ft)	3 Volumes	16.67 (Liters)
Water Column Height	9.60 (Ft)	Volume Purged	20 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
1022	5.27	119.0	15.0	30.7	1
1023	5.34	163.2	14.6	26.3	4
1025	5.45	194.3	14.6	46.0	8
1027	5.47	219	14.6	30.4	12
1029	5.53	225	14.5	24.5	16
1031	5.53	231	14.5	64.4	20
1031		Finished Purging			20

SAMPLING DATA

Date:	10-13-08	**Time:**	1034	
Method:	Teflon Bailer	**Sampling Depth:**	66.10'	
pH:	5.52	**Conductivity:**	227	(umhos/cm)
Temperature:	14.9 (°C)	**Turbidity:**	81.7	(NTU)

Odor and Physical Appearance of Sample: Cloudy - slight odor

Comments:

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

Sampler's Signature: Allen McBride **Date:** 10-13-08

REI Consultants, Inc. P.O. Box 286, Beaver, WV 25813 1-800-999-0105 fax: 1-304-255-2572 email: rlabs@reiclabs.com

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Old Highlands Landfill	**Project :**	2nd Semi 2008	**Well #:**	MW-4
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: 10-13-08 0800 **Weather Conditions:** Cloudy 59°F

Static Depth (Depth to Water)	17.76 (Ft)	Volume	4.19 (Liters)
Well Depth	25.00 (Ft)	3 Volumes	12.57 (Liters)
Water Column Height	7.24 (Ft)	Volume Purged	13 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
0805	5.70	401	13.3	7.53	1
0807	5.70	410	12.9	57.1	3
0809	5.75	420	12.8	83.8	6
0811	5.84	425	12.8	>200	9
0813	5.90	424	12.8	164	12
0814		Finished Purging			13

SAMPLING DATA

Date:	10-13-08	**Time:**	0817	
Method:	Disposable Bailer	**Sampling Depth:**	21.00'	
pH:	5.88	**Conductivity:**	423	(umhos/cm)
Temperature:	12.9 (°C)	**Turbidity:**	33.4	(NTU)

Odor and Physical Appearance of Sample: Cloudy - no odor

Comments:

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

Sampler's Signature: Allen McBride **Date:** 10-13-08

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Old Highlands Landfill	**Project :**	2nd Semi 2008	**Well #:**	MW-4A
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: Hinge rusted and broken

PURGING DATA

Date/Time: 10-13-08 0815 **Weather Conditions:** Cloudy 60°F

Static Depth (Depth to Water)	12.37 (Ft)	Volume	21.75 (Liters)
Well Depth	49.95 (Ft)	3 Volumes	65.27 (Liters)
Water Column Height	37.58 (Ft)	Volume Purged	60 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
0821	5.77	998	14.8	3.48	1
0824	5.83	1007	13.2	17.42	12
0827	5.85	999	13.1	21.2	24
0830	5.82	976	13.1	12.85	36
0833	5.83	971	13.1	12.32	48
0836	5.84	966	13.2	10.93	60
0836		Finished Purging			60

SAMPLING DATA

Date:	10-13-08	**Time:**	0838	
Method:	Teflon Bailer	**Sampling Depth:**	12.53'	
pH:	5.84	**Conductivity:**	968	**(umhos/cm)**
Temperature:	13.3 (°C)	**Turbidity:**	6.10	**(NTU)**

Odor and Physical Appearance of Sample: Clear - slight odor

Comments:

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

Sampler's Signature: Allen McBride **Date:** 10-13-08

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Old Highlands Landfill	**Project :**	2nd Semi 2008	**Well #:**	MW-5
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: 10-13-08 1108 **Weather Conditions:** Sunny 70°F

Static Depth (Depth to Water)	18.26 (Ft)	Volume	5.40 (Liters)
Well Depth	27.60 (Ft)	3 Volumes	16.22 (Liters)
Water Column Height	9.34 (Ft)	Volume Purged	6 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
1147	7.16	156.3	13.8	8.28	1
1148	6.52	159.3	13.4		4
1149		Purged Dry			6

SAMPLING DATA

Date:	10-13-08	**Time:**	1312	
Method:	Teflon Bailer	**Sampling Depth:**	19.54'	
pH:	5.64	**Conductivity:**	122.4	(umhos/cm)
Temperature:	14.7 (°C)	**Turbidity:**	18.91	(NTU)
Odor and Physical Appearance of Sample:		Clear - no odor		
Comments:				
Sampled By:	R. Farley/ A. McBride/ J. Kesterson			
Sampler's Signature:	Allen McBride	**Date:**	10-13-08	

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Old Highlands Landfill	**Project :**	2nd Semi 2008	**Well #:**	MW-5A
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: 10-13-08 1114 **Weather Conditions:** Sunny 70°F

Static Depth (Depth to Water)	18.10 (Ft)	Volume	5.54 (Liters)
Well Depth	27.67 (Ft)	3 Volumes	16.62 (Liters)
Water Column Height	9.57 (Ft)	Volume Purged	10 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
1152	5.73	117.2	13.7	6.49	1
1154	6.56	121.4	13.2	>200	4
1156	6.08	122.5	13.4	>200	8
1158		Purged Dry			10

SAMPLING DATA

Date:	10-13-08	**Time:**	1320
Method:	Teflon Bailer	**Sampling Depth:**	18.18'
pH:	5.70/Dupe 5.74	**Conductivity:** 120.7/Dupe 120.4	(umhos/cm)
Temperature: 14.8/Dupe 15.1 (°C)		**Turbidity:** 5.27/Dupe 4.01	(NTU)

Odor and Physical Appearance of Sample:

Comments:

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

Sampler's Signature: Allen McBride **Date:** 10-13-08

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Old Highlands Landfill	**Project :**	2nd Semi 2008	**Well #:**	MW-5B
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: 10-13-08 1120 **Weather Conditions:** Sunny 70°F

Static Depth (Depth to Water)	113.31 (Ft)	Volume	48.19 (Liters)
Well Depth	196.55 (Ft)	3 Volumes	144.58 (Liters)
Water Column Height	83.24 (Ft)	Volume Purged	58 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
1142	7.86	293	14.8	15.4	1
1154	7.16	298	13.8	12.16	30
1216	10.38	884	14.0	>200	58
1216		Purged Dry			58

SAMPLING DATA

Date:	10-13-08		**Time:**	1335	
Method:	Teflon Bailer		**Sampling Depth:**	190.75'	
pH:	9.78		**Conductivity:**	541	(umhos/cm)
Temperature:	15.1	(°C)	**Turbidity:**	136	(NTU)

Odor and Physical Appearance of Sample: Cloudy - r

Comments:

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

Sampler's Signature: Allen McBride **Date:** 10-13-08

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Old Highlands Landfill	**Project :**	2nd Semi 2008	**Well #:**	MW-5C
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: 10-13-08 1130 **Weather Conditions:** Sunny 70°F

Static Depth (Depth to Water)	18.35 (Ft)	Volume	19.48 (Liters)
Well Depth	52.00 (Ft)	3 Volumes	58.45 (Liters)
Water Column Height	33.65 (Ft)	Volume Purged	55 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
1205	6.49	302	13.8	55.0	1
1207	6.63	350	13.2	111	10
1209	6.90	399	13.2	49.5	20
1212	7.14	400	13.2	69.4	30
1215	7.15	400	13.3	34.8	40
1219	7.12	403	13.2	55.9	50
1221					55

SAMPLING DATA

Date:	10-13-08	**Time:**	1305	
Method:	Teflon Bailer	**Sampling Depth:**	36.45'	
pH:	6.91	**Conductivity:**	399	(umhos/cm)
Temperature:	14.6 (°C)	**Turbidity:**	53.3	(NTU)
Odor and Physical Appearance of Sample:		Cloudy - no odor		
Comments:				
Sampled By:	R. Farley/A. McBride/J. Kesterson			
Sampler's Signature:	Allen McBride	**Date:**	10-13-08	

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Old Highlands Landfill	**Project :**	2nd Semi 2008	**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: 10-13-08 1359 **Weather Conditions:** Sunny 70°F

Static Depth (Depth to Water)	11.77 (Ft)	Volume	6.67 (Liters)
Well Depth	23.30 (Ft)	3 Volumes	20.02 (Liters)
Water Column Height	11.53 (Ft)	Volume Purged	8 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
1402	6.96	31.8	16.8	13.12	1
1403	6.79	28.3	16.1	9.89	4
1404	6.63	27.3	15.4	65.0	8
1404		Purged Dry			8

SAMPLING DATA

Date:	10-13-08	**Time:**	1500	
Method:	Teflon Bailer	**Sampling Depth:**	21.00'	
pH:	5.49	**Conductivity:**	26.7	(umhos/cm)
Temperature:	16.1 (°C)	**Turbidity:**	37.2	(NTU)

Odor and Physical Appearance of Sample: Cloudy - no odor

Comments:

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

Sampler's Signature: Allen McBride **Date:** 10-13-08

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Old Highlands Landfill	**Project :**	2nd Semi 2008	**Well #:**	MW-6A
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: 10-13-08 1404 **Weather Conditions:** Sunny 70°F

Static Depth (Depth to Water)	9.80 (Ft)	Volume	4.56 (Liters)
Well Depth	17.68 (Ft)	3 Volumes	13.68 (Liters)
Water Column Height	7.88 (Ft)	Volume Purged	14 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
1408	5.71	22.5	16.5	12.97	1
1409	5.31	23.8	16.5	>200	3
1410	5.33	23.8	16.2	>200	6
1411	5.41	23.0	16.1	>200	9
1412	5.38	23.0	16.0	>200	12
1412		Finished Purging			14

SAMPLING DATA

Date:	10-13-08	**Time:**	1455	
Method:	Teflon Bailer	**Sampling Depth:**	10.12'	
pH:	5.96	**Conductivity:**	25.0	(umhos/cm)
Temperature:	17.2 (°C)	**Turbidity:**	58.4	(NTU)

Odor and Physical Appearance of Sample: Cloudy - no odor

Comments:

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

Sampler's Signature: Allen McBride **Date:** 10-13-08

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Old Highlands Landfill	**Project :**	2nd Semi 2008	**Well #:**	MW-6C
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: Hinge broken

PURGING DATA

Date/Time: 10-13-08 1340 **Weather Conditions:** Sunny 75°F

Static Depth (Depth to Water)	21.37 (Ft)	Volume	10.58 (Liters)
Well Depth	39.65 (Ft)	3 Volumes	31.75 (Liters)
Water Column Height	18.28 (Ft)	Volume Purged	19 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
1346	8.92	148.5	16.0	19.90	1
1348	8.88	145.8	14.8	19.21	5
1352	8.86	141.4	14.8	14.27	10
1355	9.86	177.3	14.2	69.8	15
1358		Purged Dry			19

SAMPLING DATA

Date:	10-13-08		**Time:**	1505	
Method:	Teflon Bailer		**Sampling Depth:**	33.58'	
pH:	6.10		**Conductivity:**	82.0	(umhos/cm)
Temperature:	15.2	(°C)	**Turbidity:**	13.22	(NTU)

Odor and Physical Appearance of Sample: Clear - no odor

Comments:

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

Sampler's Signature: Allen McBride **Date:** 10-13-08

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Old Highlands Landfill	**Project :**	2nd Semi 2008	**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: 10-13-08 1520 **Weather Conditions:**

Static Depth (Depth to Water)	32.53 (Ft)	Volume	3.09 (Liters)
Well Depth	37.88 (Ft)	3 Volumes	9.29 (Liters)
Water Column Height	5.35 (Ft)	Volume Purged	9 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
1524	5.89	913	15.3	4.91	1
1525	5.91	863	14.2	178	3
1526	5.89	828	14.0	>200	5
1527	5.91	878	13.9	>200	7
1528	5.89	891	13.8	>200	9
1528		Purged Dry			9

SAMPLING DATA

Date:	10-13-08	**Time:**	1537	
Method:	Teflon Bailer	**Sampling Depth:**	35.62'	
pH:	5.98	**Conductivity:**	865	(umhos/cm)
Temperature:	15.0 (°C)	**Turbidity:**	96.1	(NTU)

Odor and Physical Appearance of Sample: Cloudy - no odor

Comments:

Sampled By: R. Farley/R. McBride/J. Kesterson

Sampler's Signature: Allen McBride **Date:** 10-13-08

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Old Highlands Landfill	**Project :**	2nd Semi 2008	**Well #:**	MW-8
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: 10-13-08 0955 **Weather Conditions:** Cloudy 63°F

Static Depth (Depth to Water)	40.45 (Ft)	Volume	1.53 (Liters)
Well Depth	43.10 (Ft)	3 Volumes	4.6 (Liters)
Water Column Height	2.65 (Ft)	Volume Purged	5 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
1000	5.95	27.2	14.3	15.09	1
1001	5.71	22.0	13.6	161	3
1002	5.60	21.7	13.5	>200	5
1002		Finished Purging			5

SAMPLING DATA

Date:	10-13-08		**Time:**	1007	
Method:	Teflon Bailer		**Sampling Depth:**	41.10'	
pH:	5.51		**Conductivity:**	21.7	(umhos/cm)
Temperature:	13.7	(°C)	**Turbidity:**	>200	(NTU)

Odor and Physical Appearance of Sample: Cloudy - no odor

Comments:

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

Sampler's Signature: Allen McBride **Date:** 10-13-08

Surface Water Sampling Log

REI Consultants, Inc.

Project Name:	Old Highlands Landfill		
Contact Person:	Chris Stahl	Phone/Fax:	(828) 349-2100

Outlet:	Spring A		
Date:	Dry - no sample	Time:	
pH:		Conductivity:	*umhos/cm*
Flow:		Temperature:	^{o}C
Sampled Odor and Physical Appearance:			
Comments:	Turbidity NTU		

Outlet:	Spring B		
Date:	10-13-08	Time:	1345
pH:	8.38	Conductivity:	21.9 *umhos/cm*
Flow:	NA	Temperature:	17.1 ^{o}C
Sampled Odor and Physical Appearance:	Clear - no odor		
Comments:	Turbidity 8.31 NTU		

Outlet:			
Date:		Time:	
pH:		Conductivity:	*umhos/cm*
Flow:		Temperature:	^{o}C
Sampled Odor and Physical Appearance:			
Comments:			

Surface Water Sampling Log

REI Consultants, Inc.

Project Name:	Old Highlands Landfill		
Contact Person:	Chris Stahl	Phone/Fax:	(828) 349-2100

Outlet:	Chastain Spring		
Date:	Dry - no sample	Time:	
pH:		Conductivity:	*umhos/cm*
Flow:		Temperature:	*°C*
Sampled Odor and Physical Appearance:			
Comments:	Turbidity NTU		

Outlet:	Chastain Well		
Date:	10-13-08	Time:	1430
pH:	6.31	Conductivity:	22.2 *umhos/cm*
Flow:	NA	Temperature:	15.9 *°C*
Sampled Odor and Physical Appearance:	Clear - no odor		
Comments:	Turbidity 0.54 NTU		

Outlet:	McCall Well		
Date:	10-13-08	Time:	1445
pH:	6.54	Conductivity:	91.3 *umhos/cm*
Flow:	NA	Temperature:	22.3 °C
Sampled Odor and Physical Appearance:	Clear - no odor		
Comments:	Turbidity 1.12 NTU		

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Highlands C&D	**Project :**	2nd Semi 2008	**Well #:**	MW-A
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: 10-13-08 0858 **Weather Conditions:** Cloudy 60°F

Static Depth (Depth to Water)	8.03 (Ft)	Volume	3.76 (Liters)
Well Depth	14.54 (Ft)	3 Volumes	11.3 (Liters)
Water Column Height	6.51 (Ft)	Volume Purged	12 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
0903	5.84	41.5	15.6	1.86	1
0904	5.21	31.9	15.6	10.95	3
0907	5.14	33.0	15.4	16.74	5
0909	5.10	33.0	15.3	20.6	7
0910	5.12	32.5	15.2	23.2	9
0911	5.04	31.5	15.1	19.6	11
0912		Finished Purging			12

SAMPLING DATA

Date:	10-13-08	**Time:**	0914	
Method:	Teflon Bailer	**Sampling Depth:**	8.23'	
pH:	5.23	**Conductivity:**	34.7	(umhos/cm)
Temperature:	15.4 (°C)	**Turbidity:**	18.19	(NTU)

Odor and Physical Appearance of Sample:

Comments: Hinge on well casing broken

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

Sampler's Signature: Allen McBride **Date:** 10-13-08

REI CONSULTANTS GROUNDWATER SAMPLING LOG

Project Name:	Highlands C&D	**Project :**	2nd Semi 2008	**Well #:**	MW-B
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: 10-13-08 0927 **Weather Conditions:** Cloudy 60°F

Static Depth (Depth to Water)	9.26 (Ft)	Volume	6.3 (Liters)
Well Depth	20.15 (Ft)	3 Volumes	18.91 (Liters)
Water Column Height	10.89 (Ft)	Volume Purged	20 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
0930	5.57	186.3	15.5	1.86	1
0931	5.37	295	14.8	82.3	4
0933	5.40	307	14.6	87.9	8
0934	5.42	305	14.5	109	12
0935	5.43	301	14.5	104	16
0937	5.44	297	14.5	124	20
0937		Finished Purging			20

SAMPLING DATA

Date:	10-13-08	**Time:**	0939	
Method:	Teflon Bailer	**Sampling Depth:**	9.41'	
pH:	5.42	**Conductivity:**	296	(umhos/cm)
Temperature:	14.7 (°C)	**Turbidity:**	117	(NTU)
Odor and Physical Appearance of Sample:		Cloudy - no odor		

Comments:

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

Sampler's Signature: Allen McBride **Date:** 10-13-08

Surface Water Sampling Log

REI Consultants, Inc.

Project Name:	Highlands C & D		
Contact Person:	Chris Stahl	Phone/Fax:	(828) 349-2100

Outlet:	WSW-1			
Date:	10-13-08	Time:	0915	
pH:	6.41/Dupe 6.40	Conductivity:	7.75/Dupe 78.0	*umhos/cm*
Flow:	NA	Temperature:	14.1/Dupe 14.4	^{o}C
Sampled Odor and Physical Appearance:		Clear - no odor		
Comments: Purged 5 min before sampling		Turbidity 2.29/Dupe 1.79 NTU		

Outlet:	SW-1		
Date:	No flow	Time:	
pH:		Conductivity:	*umhos/cm*
Flow:		Temperature:	^{o}C
Sampled Odor and Physical Appearance:			
Comments:	Turbidity	NTU	

Outlet:			
Date:		Time:	
pH:		Conductivity:	*umhos/cm*
Flow:	NA	Temperature:	^{o}C
Sampled Odor and Physical Appearance:		Turbidity	NTU
Comments:			

Appendix C

Laboratory Reports 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...

November 07, 2008

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 HIGHLANDS LANDFILL

Order No.: 0810C19

Dear Mr. Chris Stahl:

REI Consultants, Inc. received 19 sample(s) on 10/16/2008 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,

Beth Johnson

Beth Johnson
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

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...

Report Narrative

Project Manager:: **Beth Johnson** Beth Johnson

WO#: **0810C19**
Date: **11/7/2008**

CLIENT: MACON COUNTY SOLID WASTE MAN
Project: OLD HIGHLANDS LANDFILL

All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. REI Consultants, Inc. (REIC) technical managers have verified compliance of reported results with the REIC's Quality Program and SOPs, except as noted in this case narrative. Any deviation from compliance is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All samples were analyzed using the methods stated in the analytical report without modification, unless otherwise noted.

All sample results are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

The test results in this report meet all NELAP requirements for parameters for which accreditations are required or available. Any exceptions are noted in this report. This report may not be reproduced, except in full, without the written approval of REIC.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after five years unless otherwise arranged by the client via written notification or contract requirement.

If you have any questions please contact the project manager whose name is listed above.

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-01
Client Sample ID:	MW-1	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 10:55:00 AM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 12:37:09 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 12:37:09 PM
Barium	0.169	mg/L		0.00100	0.100	11/5/2008 12:37:09 PM
Beryllium	0.0002	mg/L	J	0.00020	0.0010	11/5/2008 12:37:09 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 12:37:09 PM
Chromium	0.0020	mg/L	J	0.00100	0.0100	11/5/2008 12:37:09 PM
Cobalt	0.0522	mg/L		0.00100	0.0100	11/5/2008 12:37:09 PM
Copper	0.0037	mg/L	J	0.00100	0.0100	11/5/2008 12:37:09 PM
Lead	0.0020	mg/L	J	0.00020	0.0100	11/5/2008 12:37:09 PM
Nickel	0.0041	mg/L	J	0.00200	0.0500	11/5/2008 12:37:09 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 12:37:09 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 12:37:09 PM
Thallium	0.0004	mg/L	J	0.00020	0.0050	11/5/2008 12:37:09 PM
Vanadium	0.0036	mg/L	J	0.00100	0.0200	11/5/2008 12:37:09 PM
Zinc	0.0247	mg/L		0.00300	0.0100	11/5/2008 12:37:09 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 10:56:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 10:56:00 AM
Benzene	3.3	µg/L		0.13	1.0	10/20/2008 10:56:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 10:56:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 10:56:00 AM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 10:56:00 AM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 10:56:00 AM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 10:56:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 10:56:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 10:56:00 AM
Chlorobenzene	2.2	µg/L		0.18	1.0	10/20/2008 10:56:00 AM
Chloroethane	ND	µg/L		0.94	1.0	10/20/2008 10:56:00 AM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 10:56:00 AM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 10:56:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 10:56:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 10:56:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 10:56:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 10:56:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 10:56:00 AM
1,4-Dichlorobenzene	4.6	µg/L		0.29	1.0	10/20/2008 10:56:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-01
Client Sample ID:	MW-1	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 10:55:00 AM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 10:56:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/20/2008 10:56:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 10:56:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 10:56:00 AM
cis-1,2-Dichloroethene	1.2	µg/L		0.23	1.0	10/20/2008 10:56:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 10:56:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 10:56:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 10:56:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 10:56:00 AM
Ethylbenzene	0.2	µg/L	J	0.18	1.0	10/20/2008 10:56:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 10:56:00 AM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 10:56:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 10:56:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 10:56:00 AM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 10:56:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 10:56:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 10:56:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 10:56:00 AM
Toluene	0.6	µg/L	J	0.17	1.0	10/20/2008 10:56:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 10:56:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 10:56:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 10:56:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 10:56:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 10:56:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 10:56:00 AM
Vinyl chloride	14.0	µg/L		0.22	1.0	10/20/2008 10:56:00 AM
o-Xylene	0.4	µg/L	J	0.19	1.0	10/20/2008 10:56:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 10:56:00 AM
Surr: 1,2-Dichloroethane-d4	88.7	%REC			80-120	10/20/2008 10:56:00 AM
Surr: 4-Bromofluorobenzene	108	%REC			86-115	10/20/2008 10:56:00 AM
Surr: Dibromofluoromethane	101	%REC			80-120	10/20/2008 10:56:00 AM
Surr: Toluene-d8	104	%REC			88-110	10/20/2008 10:56:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	71	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-02
Client Sample ID:	MW-2	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 10:34:00 AM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 12:42:52 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 12:42:52 PM
Barium	0.0576	mg/L	J	0.00100	0.100	11/5/2008 12:42:52 PM
Beryllium	0.0002	mg/L	J	0.00020	0.0010	11/5/2008 12:42:52 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 12:42:52 PM
Chromium	0.0022	mg/L	J	0.00100	0.0100	11/5/2008 12:42:52 PM
Cobalt	0.0152	mg/L		0.00100	0.0100	11/5/2008 12:42:52 PM
Copper	0.0044	mg/L	J	0.00100	0.0100	11/5/2008 12:42:52 PM
Lead	0.0020	mg/L	J	0.00020	0.0100	11/5/2008 12:42:52 PM
Nickel	0.0066	mg/L	J	0.00200	0.0500	11/5/2008 12:42:52 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 12:42:52 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 12:42:52 PM
Thallium	0.0002	mg/L	J	0.00020	0.0050	11/5/2008 12:42:52 PM
Vanadium	0.0035	mg/L	J	0.00100	0.0200	11/5/2008 12:42:52 PM
Zinc	0.0377	mg/L		0.00300	0.0100	11/5/2008 12:42:52 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 11:53:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 11:53:00 AM
Benzene	0.6	µg/L	J	0.13	1.0	10/20/2008 11:53:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 11:53:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 11:53:00 AM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 11:53:00 AM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 11:53:00 AM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 11:53:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 11:53:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 11:53:00 AM
Chlorobenzene	1.1	µg/L		0.18	1.0	10/20/2008 11:53:00 AM
Chloroethane	2.1	µg/L		0.94	1.0	10/20/2008 11:53:00 AM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 11:53:00 AM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 11:53:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 11:53:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 11:53:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 11:53:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 11:53:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 11:53:00 AM
1,4-Dichlorobenzene	1.0	µg/L		0.29	1.0	10/20/2008 11:53:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-02
Client Sample ID:	MW-2	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 10:34:00 AM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 11:53:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/20/2008 11:53:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 11:53:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 11:53:00 AM
cis-1,2-Dichloroethene	4.2	µg/L		0.23	1.0	10/20/2008 11:53:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 11:53:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 11:53:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 11:53:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 11:53:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/20/2008 11:53:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 11:53:00 AM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 11:53:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 11:53:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 11:53:00 AM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 11:53:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 11:53:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 11:53:00 AM
Tetrachloroethene	0.4	µg/L	J	0.20	1.0	10/20/2008 11:53:00 AM
Toluene	0.2	µg/L	J	0.17	1.0	10/20/2008 11:53:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 11:53:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 11:53:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 11:53:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 11:53:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 11:53:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 11:53:00 AM
Vinyl chloride	3.5	µg/L		0.22	1.0	10/20/2008 11:53:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/20/2008 11:53:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 11:53:00 AM
Surr: 1,2-Dichloroethane-d4	90.7	%REC			80-120	10/20/2008 11:53:00 AM
Surr: 4-Bromofluorobenzene	113	%REC			86-115	10/20/2008 11:53:00 AM
Surr: Dibromofluoromethane	97.4	%REC			80-120	10/20/2008 11:53:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/20/2008 11:53:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	143	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-03
Client Sample ID:	MW-4	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 8:17:00 AM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 12:48:36 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 12:48:36 PM
Barium	0.104	mg/L		0.00100	0.100	11/5/2008 12:48:36 PM
Beryllium	ND	mg/L		0.00020	0.0010	11/5/2008 12:48:36 PM
Cadmium	0.0002	mg/L	J	0.00020	0.0010	11/5/2008 12:48:36 PM
Chromium	ND	mg/L		0.00100	0.0100	11/5/2008 12:48:36 PM
Cobalt	0.0052	mg/L	J	0.00100	0.0100	11/5/2008 12:48:36 PM
Copper	0.0029	mg/L	J	0.00100	0.0100	11/5/2008 12:48:36 PM
Lead	0.0062	mg/L	J	0.00020	0.0100	11/5/2008 12:48:36 PM
Nickel	0.0025	mg/L	J	0.00200	0.0500	11/5/2008 12:48:36 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 12:48:36 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 12:48:36 PM
Thallium	0.0003	mg/L	J	0.00020	0.0050	11/5/2008 12:48:36 PM
Vanadium	ND	mg/L		0.00100	0.0200	11/5/2008 12:48:36 PM
Zinc	0.0034	mg/L	J	0.00300	0.0100	11/5/2008 12:48:36 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 12:26:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 12:26:00 PM
Benzene	0.4	µg/L	J	0.13	1.0	10/20/2008 12:26:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 12:26:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 12:26:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 12:26:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 12:26:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 12:26:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 12:26:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 12:26:00 PM
Chlorobenzene	0.2	µg/L	J	0.18	1.0	10/20/2008 12:26:00 PM
Chloroethane	ND	µg/L		0.94	1.0	10/20/2008 12:26:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 12:26:00 PM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 12:26:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 12:26:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 12:26:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 12:26:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 12:26:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 12:26:00 PM
1,4-Dichlorobenzene	1.0	µg/L	J	0.29	1.0	10/20/2008 12:26:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-03
Client Sample ID:	MW-4	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 8:17:00 AM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 12:26:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/20/2008 12:26:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 12:26:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 12:26:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	10/20/2008 12:26:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 12:26:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 12:26:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 12:26:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 12:26:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/20/2008 12:26:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 12:26:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 12:26:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 12:26:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 12:26:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 12:26:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 12:26:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 12:26:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 12:26:00 PM
Toluene	ND	µg/L		0.17	1.0	10/20/2008 12:26:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 12:26:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 12:26:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 12:26:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 12:26:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 12:26:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 12:26:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	10/20/2008 12:26:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/20/2008 12:26:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 12:26:00 PM
Surr: 1,2-Dichloroethane-d4	92.0	%REC			80-120	10/20/2008 12:26:00 PM
Surr: 4-Bromofluorobenzene	106	%REC			86-115	10/20/2008 12:26:00 PM
Surr: Dibromofluoromethane	97.3	%REC			80-120	10/20/2008 12:26:00 PM
Surr: Toluene-d8	104	%REC			88-110	10/20/2008 12:26:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	11	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-04
Client Sample ID:	MW-4A	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 8:38:00 AM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 12:54:19 PM
Arsenic	0.0022	mg/L	J	0.00200	0.0100	11/5/2008 12:54:19 PM
Barium	0.267	mg/L		0.00100	0.100	11/5/2008 12:54:19 PM
Beryllium	ND	mg/L		0.00020	0.0010	11/5/2008 12:54:19 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 12:54:19 PM
Chromium	ND	mg/L		0.00100	0.0100	11/5/2008 12:54:19 PM
Cobalt	0.0125	mg/L		0.00100	0.0100	11/5/2008 12:54:19 PM
Copper	ND	mg/L		0.00100	0.0100	11/5/2008 12:54:19 PM
Lead	ND	mg/L		0.00020	0.0100	11/5/2008 12:54:19 PM
Nickel	0.0053	mg/L	J	0.00200	0.0500	11/5/2008 12:54:19 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 12:54:19 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 12:54:19 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 12:54:19 PM
Vanadium	0.0018	mg/L	J	0.00100	0.0200	11/5/2008 12:54:19 PM
Zinc	0.0034	mg/L	J	0.00300	0.0100	11/5/2008 12:54:19 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 12:58:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 12:58:00 PM
Benzene	3.4	µg/L		0.13	1.0	10/20/2008 12:58:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 12:58:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 12:58:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 12:58:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 12:58:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 12:58:00 PM
Carbon disulfide	1.5	µg/L	J	1.27	5.0	10/20/2008 12:58:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 12:58:00 PM
Chlorobenzene	5.7	µg/L		0.18	1.0	10/20/2008 12:58:00 PM
Chloroethane	5.1	µg/L		0.94	1.0	10/20/2008 12:58:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 12:58:00 PM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 12:58:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 12:58:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 12:58:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 12:58:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 12:58:00 PM
1,2-Dichlorobenzene	0.5	µg/L	J	0.45	1.0	10/20/2008 12:58:00 PM
1,4-Dichlorobenzene	3.6	µg/L		0.29	1.0	10/20/2008 12:58:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-04
Client Sample ID:	MW-4A	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 8:38:00 AM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 12:58:00 PM
1,1-Dichloroethane	0.7	µg/L	J	0.38	1.0	10/20/2008 12:58:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 12:58:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 12:58:00 PM
cis-1,2-Dichloroethene	0.4	µg/L	J	0.23	1.0	10/20/2008 12:58:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 12:58:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 12:58:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 12:58:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 12:58:00 PM
Ethylbenzene	4.8	µg/L		0.18	1.0	10/20/2008 12:58:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 12:58:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 12:58:00 PM
Methylene chloride	0.6	µg/L	J	0.54	1.0	10/20/2008 12:58:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 12:58:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 12:58:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 12:58:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 12:58:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 12:58:00 PM
Toluene	0.6	µg/L	J	0.17	1.0	10/20/2008 12:58:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 12:58:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 12:58:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 12:58:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 12:58:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 12:58:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 12:58:00 PM
Vinyl chloride	8.1	µg/L		0.22	1.0	10/20/2008 12:58:00 PM
o-Xylene	0.6	µg/L	J	0.19	1.0	10/20/2008 12:58:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 12:58:00 PM
Surr: 1,2-Dichloroethane-d4	83.4	%REC			80-120	10/20/2008 12:58:00 PM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	10/20/2008 12:58:00 PM
Surr: Dibromofluoromethane	103	%REC			80-120	10/20/2008 12:58:00 PM
Surr: Toluene-d8	102	%REC			88-110	10/20/2008 12:58:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	9	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-05
Client Sample ID:	MW-5	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 1:12:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Quai	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 1:00:03 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 1:00:03 PM
Barium	0.0282	mg/L	J	0.00100	0.100	11/5/2008 1:00:03 PM
Beryllium	ND	mg/L		0.00020	0.0010	11/5/2008 1:00:03 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 1:00:03 PM
Chromium	ND	mg/L		0.00100	0.0100	11/5/2008 1:00:03 PM
Cobalt	0.0032	mg/L	J	0.00100	0.0100	11/5/2008 1:00:03 PM
Copper	ND	mg/L		0.00100	0.0100	11/5/2008 1:00:03 PM
Lead	0.0003	mg/L	J	0.00020	0.0100	11/5/2008 1:00:03 PM
Nickel	ND	mg/L		0.00200	0.0500	11/5/2008 1:00:03 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 1:00:03 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 1:00:03 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 1:00:03 PM
Vanadium	ND	mg/L		0.00100	0.0200	11/5/2008 1:00:03 PM
Zinc	0.0091	mg/L	J	0.00300	0.0100	11/5/2008 1:00:03 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 1:31:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 1:31:00 PM
Benzene	0.7	µg/L	J	0.13	1.0	10/20/2008 1:31:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 1:31:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 1:31:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 1:31:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 1:31:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 1:31:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 1:31:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 1:31:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	10/20/2008 1:31:00 PM
Chloroethane	ND	µg/L		0.94	1.0	10/20/2008 1:31:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 1:31:00 PM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 1:31:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 1:31:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 1:31:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 1:31:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 1:31:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 1:31:00 PM
1,4-Dichlorobenzene	1.0	µg/L	J	0.29	1.0	10/20/2008 1:31:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-05
Client Sample ID:	MW-5	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 1:12:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 1:31:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/20/2008 1:31:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 1:31:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 1:31:00 PM
cis-1,2-Dichloroethene	32.0	µg/L		1.13	5.0	10/21/2008 3:54:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 1:31:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 1:31:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 1:31:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 1:31:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/20/2008 1:31:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 1:31:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 1:31:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 1:31:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 1:31:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 1:31:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 1:31:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 1:31:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 1:31:00 PM
Toluene	ND	µg/L		0.17	1.0	10/20/2008 1:31:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 1:31:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 1:31:00 PM
Trichloroethene	0.6	µg/L	J	0.30	1.0	10/20/2008 1:31:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 1:31:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 1:31:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 1:31:00 PM
Vinyl chloride	48.7	µg/L		1.12	5.0	10/21/2008 3:54:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/20/2008 1:31:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 1:31:00 PM
Surr: 1,2-Dichloroethane-d4	87.0	%REC			80-120	10/20/2008 1:31:00 PM
Surr: 4-Bromofluorobenzene	108	%REC			86-115	10/20/2008 1:31:00 PM
Surr: Dibromofluoromethane	97.3	%REC			80-120	10/20/2008 1:31:00 PM
Surr: Toluene-d8	102	%REC			88-110	10/20/2008 1:31:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	5	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-06
Client Sample ID:	MW-5A	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 1:20:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 1:05:47 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 1:05:47 PM
Barium	0.0471	mg/L	J	0.00100	0.100	11/5/2008 1:05:47 PM
Beryllium	0.0003	mg/L	J	0.00020	0.0010	11/5/2008 1:05:47 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 1:05:47 PM
Chromium	0.0027	mg/L	J	0.00100	0.0100	11/5/2008 1:05:47 PM
Cobalt	0.0054	mg/L	J	0.00100	0.0100	11/5/2008 1:05:47 PM
Copper	0.0022	mg/L	J	0.00100	0.0100	11/5/2008 1:05:47 PM
Lead	0.0030	mg/L	J	0.00020	0.0100	11/5/2008 1:05:47 PM
Nickel	0.0021	mg/L	J	0.00200	0.0500	11/5/2008 1:05:47 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 1:05:47 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 1:05:47 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 1:05:47 PM
Vanadium	0.0026	mg/L	J	0.00100	0.0200	11/5/2008 1:05:47 PM
Zinc	0.0116	mg/L		0.00300	0.0100	11/5/2008 1:05:47 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 2:04:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 2:04:00 PM
Benzene	ND	µg/L		0.13	1.0	10/20/2008 2:04:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 2:04:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 2:04:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 2:04:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 2:04:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 2:04:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 2:04:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 2:04:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	10/20/2008 2:04:00 PM
Chloroethane	ND	µg/L		0.94	1.0	10/20/2008 2:04:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 2:04:00 PM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 2:04:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 2:04:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 2:04:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 2:04:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 2:04:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 2:04:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/20/2008 2:04:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-06
Client Sample ID:	MW-5A	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 1:20:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 2:04:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/20/2008 2:04:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 2:04:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 2:04:00 PM
cis-1,2-Dichloroethene	1.7	µg/L		0.23	1.0	10/20/2008 2:04:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 2:04:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 2:04:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 2:04:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 2:04:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/20/2008 2:04:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 2:04:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 2:04:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 2:04:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 2:04:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 2:04:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 2:04:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 2:04:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 2:04:00 PM
Toluene	ND	µg/L		0.17	1.0	10/20/2008 2:04:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 2:04:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 2:04:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 2:04:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 2:04:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 2:04:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 2:04:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	10/20/2008 2:04:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/20/2008 2:04:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 2:04:00 PM
Surr: 1,2-Dichloroethane-d4	88.6	%REC			80-120	10/20/2008 2:04:00 PM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	10/20/2008 2:04:00 PM
Surr: Dibromofluoromethane	98.1	%REC			80-120	10/20/2008 2:04:00 PM
Surr: Toluene-d8	104	%REC			88-110	10/20/2008 2:04:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	51	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-07
Client Sample ID:	MW-5B	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 1:35:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 1:11:32 PM
Arsenic	0.0289	mg/L		0.00200	0.0100	11/5/2008 1:11:32 PM
Barium	0.0628	mg/L	J	0.00100	0.100	11/5/2008 1:11:32 PM
Beryllium	0.0005	mg/L	J	0.00020	0.0010	11/5/2008 1:11:32 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 1:11:32 PM
Chromium	0.0010	mg/L	J	0.00100	0.0100	11/5/2008 1:11:32 PM
Cobalt	0.0018	mg/L	J	0.00100	0.0100	11/5/2008 1:11:32 PM
Copper	0.0066	mg/L	J	0.00100	0.0100	11/5/2008 1:11:32 PM
Lead	0.0170	mg/L		0.00020	0.0100	11/5/2008 1:11:32 PM
Nickel	0.0056	mg/L	J	0.00200	0.0500	11/5/2008 1:11:32 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 1:11:32 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 1:11:32 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 1:11:32 PM
Vanadium	0.0032	mg/L	J	0.00100	0.0200	11/5/2008 1:11:32 PM
Zinc	0.0227	mg/L		0.00300	0.0100	11/5/2008 1:11:32 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 2:36:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 2:36:00 PM
Benzene	0.3	µg/L	J	0.13	1.0	10/20/2008 2:36:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 2:36:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 2:36:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 2:36:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 2:36:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 2:36:00 PM
Carbon disulfide	1.4	µg/L	J	1.27	5.0	10/20/2008 2:36:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 2:36:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	10/20/2008 2:36:00 PM
Chloroethane	ND	µg/L		0.94	1.0	10/20/2008 2:36:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 2:36:00 PM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 2:36:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 2:36:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 2:36:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 2:36:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 2:36:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 2:36:00 PM
1,4-Dichlorobenzene	0.3	µg/L	J	0.29	1.0	10/20/2008 2:36:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-07
Client Sample ID:	MW-5B	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 1:35:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 2:36:00 PM
1,1-Dichloroethane	0.4	µg/L	J	0.38	1.0	10/20/2008 2:36:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 2:36:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 2:36:00 PM
cis-1,2-Dichloroethene	27.4	µg/L		1.13	5.0	10/21/2008 4:28:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 2:36:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 2:36:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 2:36:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 2:36:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/20/2008 2:36:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 2:36:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 2:36:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 2:36:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 2:36:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 2:36:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 2:36:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 2:36:00 PM
Tetrachloroethene	0.6	µg/L	J	0.20	1.0	10/20/2008 2:36:00 PM
Toluene	0.2	µg/L	J	0.17	1.0	10/20/2008 2:36:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 2:36:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 2:36:00 PM
Trichloroethene	0.8	µg/L	J	0.30	1.0	10/20/2008 2:36:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 2:36:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 2:36:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 2:36:00 PM
Vinyl chloride	4.2	µg/L		0.22	1.0	10/20/2008 2:36:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/20/2008 2:36:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 2:36:00 PM
Surr: 1,2-Dichloroethane-d4	87.0	%REC			80-120	10/20/2008 2:36:00 PM
Surr: 4-Bromofluorobenzene	105	%REC			86-115	10/20/2008 2:36:00 PM
Surr: Dibromofluoromethane	93.3	%REC			80-120	10/20/2008 2:36:00 PM
Surr: Toluene-d8	105	%REC			88-110	10/20/2008 2:36:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	216	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration		*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-08
Client Sample ID:	MW-5C	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 1:05:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 1:28:41 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 1:28:41 PM
Barium	0.0549	mg/L	J	0.00100	0.100	11/5/2008 1:28:41 PM
Beryllium	ND	mg/L		0.00020	0.0010	11/5/2008 1:28:41 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 1:28:41 PM
Chromium	0.0020	mg/L	J	0.00100	0.0100	11/5/2008 1:28:41 PM
Cobalt	0.0013	mg/L	J	0.00100	0.0100	11/5/2008 1:28:41 PM
Copper	0.0055	mg/L	J	0.00100	0.0100	11/5/2008 1:28:41 PM
Lead	0.0014	mg/L	J	0.00020	0.0100	11/5/2008 1:28:41 PM
Nickel	0.0036	mg/L	J	0.00200	0.0500	11/5/2008 1:28:41 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 1:28:41 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 1:28:41 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 1:28:41 PM
Vanadium	ND	mg/L		0.00100	0.0200	11/5/2008 1:28:41 PM
Zinc	0.0124	mg/L		0.00300	0.0100	11/5/2008 1:28:41 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 3:09:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 3:09:00 PM
Benzene	1.4	µg/L		0.13	1.0	10/20/2008 3:09:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 3:09:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 3:09:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 3:09:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 3:09:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 3:09:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 3:09:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 3:09:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	10/20/2008 3:09:00 PM
Chloroethane	ND	µg/L		0.94	1.0	10/20/2008 3:09:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 3:09:00 PM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 3:09:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 3:09:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 3:09:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 3:09:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 3:09:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 3:09:00 PM
1,4-Dichlorobenzene	0.6	µg/L	J	0.29	1.0	10/20/2008 3:09:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-08
Client Sample ID:	MW-5C	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 1:05:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 3:09:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/20/2008 3:09:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 3:09:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 3:09:00 PM
cis-1,2-Dichloroethene	13.3	µg/L		0.23	1.0	10/20/2008 3:09:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 3:09:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 3:09:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 3:09:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 3:09:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/20/2008 3:09:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 3:09:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 3:09:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 3:09:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 3:09:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 3:09:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 3:09:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 3:09:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 3:09:00 PM
Toluene	0.2	µg/L	J	0.17	1.0	10/20/2008 3:09:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 3:09:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 3:09:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 3:09:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 3:09:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 3:09:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 3:09:00 PM
Vinyl chloride	48.4	µg/L		2.23	10.0	10/21/2008 5:01:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/20/2008 3:09:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 3:09:00 PM
Surr: 1,2-Dichloroethane-d4	87.3	%REC			80-120	10/20/2008 3:09:00 PM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	10/20/2008 3:09:00 PM
Surr: Dibromofluoromethane	100	%REC			80-120	10/20/2008 3:09:00 PM
Surr: Toluene-d8	105	%REC			88-110	10/20/2008 3:09:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	109	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-09
Client Sample ID:	MW-6	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 3:00:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 1:34:23 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 1:34:23 PM
Barium	0.0186	mg/L	J	0.00100	0.100	11/5/2008 1:34:23 PM
Beryllium	ND	mg/L		0.00020	0.0010	11/5/2008 1:34:23 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 1:34:23 PM
Chromium	0.0011	mg/L	J	0.00100	0.0100	11/5/2008 1:34:23 PM
Cobalt	0.0023	mg/L	J	0.00100	0.0100	11/5/2008 1:34:23 PM
Copper	ND	mg/L		0.00100	0.0100	11/5/2008 1:34:23 PM
Lead	0.0004	mg/L	J	0.00020	0.0100	11/5/2008 1:34:23 PM
Nickel	ND	mg/L		0.00200	0.0500	11/5/2008 1:34:23 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 1:34:23 PM
Silver	0.0011	mg/L	J	0.00100	0.0100	11/5/2008 1:34:23 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 1:34:23 PM
Vanadium	0.0012	mg/L	J	0.00100	0.0200	11/5/2008 1:34:23 PM
Zinc	0.0033	mg/L	J	0.00300	0.0100	11/5/2008 1:34:23 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 3:42:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 3:42:00 PM
Benzene	ND	µg/L		0.13	1.0	10/20/2008 3:42:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 3:42:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 3:42:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 3:42:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 3:42:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 3:42:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 3:42:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 3:42:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	10/20/2008 3:42:00 PM
Chloroethane	ND	µg/L		0.94	1.0	10/20/2008 3:42:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 3:42:00 PM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 3:42:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 3:42:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 3:42:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 3:42:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 3:42:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 3:42:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/20/2008 3:42:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-09
Client Sample ID:	MW-6	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 3:00:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 3:42:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/20/2008 3:42:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 3:42:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 3:42:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	10/20/2008 3:42:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 3:42:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 3:42:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 3:42:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 3:42:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/20/2008 3:42:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 3:42:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 3:42:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 3:42:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 3:42:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 3:42:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 3:42:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 3:42:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 3:42:00 PM
Toluene	ND	µg/L		0.17	1.0	10/20/2008 3:42:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 3:42:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 3:42:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 3:42:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 3:42:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 3:42:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 3:42:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	10/20/2008 3:42:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/20/2008 3:42:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 3:42:00 PM
Surr: 1,2-Dichloroethane-d4	90.4	%REC			80-120	10/20/2008 3:42:00 PM
Surr: 4-Bromofluorobenzene	98.8	%REC			86-115	10/20/2008 3:42:00 PM
Surr: Dibromofluoromethane	106	%REC			80-120	10/20/2008 3:42:00 PM
Surr: Toluene-d8	102	%REC			88-110	10/20/2008 3:42:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	68	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-10
Client Sample ID:	MW-6A	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 2:55:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 1:40:07 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 1:40:07 PM
Barium	0.0289	mg/L	J	0.00100	0.100	11/5/2008 1:40:07 PM
Beryllium	0.0002	mg/L	J	0.00020	0.0010	11/5/2008 1:40:07 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 1:40:07 PM
Chromium	0.0013	mg/L	J	0.00100	0.0100	11/5/2008 1:40:07 PM
Cobalt	0.0012	mg/L	J	0.00100	0.0100	11/5/2008 1:40:07 PM
Copper	0.0011	mg/L	J	0.00100	0.0100	11/5/2008 1:40:07 PM
Lead	0.0007	mg/L	J	0.00020	0.0100	11/5/2008 1:40:07 PM
Nickel	ND	mg/L		0.00200	0.0500	11/5/2008 1:40:07 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 1:40:07 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 1:40:07 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 1:40:07 PM
Vanadium	0.0040	mg/L	J	0.00100	0.0200	11/5/2008 1:40:07 PM
Zinc	0.0038	mg/L	J	0.00300	0.0100	11/5/2008 1:40:07 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 4:14:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 4:14:00 PM
Benzene	ND	µg/L		0.13	1.0	10/20/2008 4:14:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 4:14:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 4:14:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 4:14:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 4:14:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 4:14:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 4:14:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 4:14:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	10/20/2008 4:14:00 PM
Chloroethane	ND	µg/L		0.94	1.0	10/20/2008 4:14:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 4:14:00 PM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 4:14:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 4:14:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 4:14:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 4:14:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 4:14:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 4:14:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/20/2008 4:14:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-10
Client Sample ID:	MW-6A	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 2:55:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 4:14:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/20/2008 4:14:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 4:14:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 4:14:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	10/20/2008 4:14:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 4:14:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 4:14:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 4:14:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 4:14:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/20/2008 4:14:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 4:14:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 4:14:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 4:14:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 4:14:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 4:14:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 4:14:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 4:14:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 4:14:00 PM
Toluene	ND	µg/L		0.17	1.0	10/20/2008 4:14:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 4:14:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 4:14:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 4:14:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 4:14:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 4:14:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 4:14:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	10/20/2008 4:14:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/20/2008 4:14:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 4:14:00 PM
Surr: 1,2-Dichloroethane-d4	87.0	%REC			80-120	10/20/2008 4:14:00 PM
Surr: 4-Bromofluorobenzene	105	%REC			86-115	10/20/2008 4:14:00 PM
Surr: Dibromofluoromethane	91.8	%REC			80-120	10/20/2008 4:14:00 PM
Surr: Toluene-d8	106	%REC			88-110	10/20/2008 4:14:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	226	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-11
Client Sample ID:	MW-6C	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 3:05:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 1:45:51 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 1:45:51 PM
Barium	0.0090	mg/L	J	0.00100	0.100	11/5/2008 1:45:51 PM
Beryllium	ND	mg/L		0.00020	0.0010	11/5/2008 1:45:51 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 1:45:51 PM
Chromium	0.0015	mg/L	J	0.00100	0.0100	11/5/2008 1:45:51 PM
Cobalt	ND	mg/L		0.00100	0.0100	11/5/2008 1:45:51 PM
Copper	ND	mg/L		0.00100	0.0100	11/5/2008 1:45:51 PM
Lead	ND	mg/L		0.00020	0.0100	11/5/2008 1:45:51 PM
Nickel	ND	mg/L		0.00200	0.0500	11/5/2008 1:45:51 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 1:45:51 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 1:45:51 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 1:45:51 PM
Vanadium	0.0034	mg/L	J	0.00100	0.0200	11/5/2008 1:45:51 PM
Zinc	0.0035	mg/L	J	0.00300	0.0100	11/5/2008 1:45:51 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 4:47:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 4:47:00 PM
Benzene	ND	µg/L		0.13	1.0	10/20/2008 4:47:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 4:47:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 4:47:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 4:47:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 4:47:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 4:47:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 4:47:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 4:47:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	10/20/2008 4:47:00 PM
Chloroethane	ND	µg/L		0.94	1.0	10/20/2008 4:47:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 4:47:00 PM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 4:47:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 4:47:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 4:47:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 4:47:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 4:47:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 4:47:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/20/2008 4:47:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-11
Client Sample ID:	MW-6C	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 3:05:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 4:47:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/20/2008 4:47:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 4:47:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 4:47:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	10/20/2008 4:47:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 4:47:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 4:47:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 4:47:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 4:47:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/20/2008 4:47:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 4:47:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 4:47:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 4:47:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 4:47:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 4:47:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 4:47:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 4:47:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 4:47:00 PM
Toluene	ND	µg/L		0.17	1.0	10/20/2008 4:47:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 4:47:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 4:47:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 4:47:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 4:47:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 4:47:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 4:47:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	10/20/2008 4:47:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/20/2008 4:47:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 4:47:00 PM
Surr: 1,2-Dichloroethane-d4	92.7	%REC			80-120	10/20/2008 4:47:00 PM
Surr: 4-Bromofluorobenzene	109	%REC			86-115	10/20/2008 4:47:00 PM
Surr: Dibromofluoromethane	94.7	%REC			80-120	10/20/2008 4:47:00 PM
Surr: Toluene-d8	108	%REC			88-110	10/20/2008 4:47:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	7	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-12
Client Sample ID:	MW-7	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 3:37:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 1:51:33 PM
Arsenic	0.0063	mg/L	J	0.00200	0.0100	11/5/2008 1:51:33 PM
Barium	0.183	mg/L		0.00100	0.100	11/5/2008 1:51:33 PM
Beryllium	0.0008	mg/L	J	0.00020	0.0010	11/5/2008 1:51:33 PM
Cadmium	0.0004	mg/L	J	0.00020	0.0010	11/5/2008 1:51:33 PM
Chromium	0.0039	mg/L	J	0.00100	0.0100	11/5/2008 1:51:33 PM
Cobalt	0.0893	mg/L		0.00100	0.0100	11/5/2008 1:51:33 PM
Copper	0.0084	mg/L	J	0.00100	0.0100	11/5/2008 1:51:33 PM
Lead	0.0176	mg/L		0.00020	0.0100	11/5/2008 1:51:33 PM
Nickel	0.0082	mg/L	J	0.00200	0.0500	11/5/2008 1:51:33 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 1:51:33 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 1:51:33 PM
Thallium	0.0011	mg/L	J	0.00020	0.0050	11/5/2008 1:51:33 PM
Vanadium	0.0034	mg/L	J	0.00100	0.0200	11/5/2008 1:51:33 PM
Zinc	0.0928	mg/L		0.00300	0.0100	11/5/2008 1:51:33 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 10:13:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 10:13:00 PM
Benzene	4.7	µg/L		0.13	1.0	10/20/2008 10:13:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 10:13:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 10:13:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 10:13:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 10:13:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 10:13:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 10:13:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 10:13:00 PM
Chlorobenzene	1.3	µg/L		0.18	1.0	10/20/2008 10:13:00 PM
Chloroethane	ND	µg/L		0.94	1.0	10/20/2008 10:13:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 10:13:00 PM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 10:13:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 10:13:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 10:13:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 10:13:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 10:13:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 10:13:00 PM
1,4-Dichlorobenzene	9.2	µg/L		0.29	1.0	10/20/2008 10:13:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-12
Client Sample ID:	MW-7	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 3:37:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 10:13:00 PM
1,1-Dichloroethane	1.3	µg/L		0.38	1.0	10/20/2008 10:13:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 10:13:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 10:13:00 PM
cis-1,2-Dichloroethene	44.7	µg/L		2.26	10.0	10/21/2008 3:20:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 10:13:00 PM
1,2-Dichloropropane	0.6	µg/L	J	0.46	1.0	10/20/2008 10:13:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 10:13:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 10:13:00 PM
Ethylbenzene	25.1	µg/L		1.78	10.0	10/21/2008 3:20:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 10:13:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 10:13:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 10:13:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 10:13:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 10:13:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 10:13:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 10:13:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 10:13:00 PM
Toluene	110	µg/L		1.67	10.0	10/21/2008 3:20:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 10:13:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 10:13:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 10:13:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 10:13:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 10:13:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 10:13:00 PM
Vinyl chloride	932	µg/L		22.3	100	10/21/2008 5:34:00 PM
o-Xylene	21.6	µg/L		0.19	1.0	10/20/2008 10:13:00 PM
m,p-Xylene	42.7	µg/L		0.29	2.0	10/20/2008 10:13:00 PM
Surr: 1,2-Dichloroethane-d4	77.3	%REC	S		80-120	10/20/2008 10:13:00 PM
Surr: 4-Bromofluorobenzene	108	%REC			86-115	10/20/2008 10:13:00 PM
Surr: Dibromofluoromethane	91.7	%REC			80-120	10/20/2008 10:13:00 PM
Surr: Toluene-d8	107	%REC			88-110	10/20/2008 10:13:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	1,350	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-13
Client Sample ID:	MW-8	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 10:07:00 AM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 1:57:17 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 1:57:17 PM
Barium	0.436	mg/L		0.00100	0.100	11/5/2008 1:57:17 PM
Beryllium	0.0018	mg/L		0.00020	0.0010	11/5/2008 1:57:17 PM
Cadmium	0.0002	mg/L	J	0.00020	0.0010	11/5/2008 1:57:17 PM
Chromium	0.0024	mg/L	J	0.00100	0.0100	11/5/2008 1:57:17 PM
Cobalt	0.0212	mg/L		0.00100	0.0100	11/5/2008 1:57:17 PM
Copper	0.0161	mg/L		0.00100	0.0100	11/5/2008 1:57:17 PM
Lead	0.0198	mg/L		0.00020	0.0100	11/5/2008 1:57:17 PM
Nickel	0.0094	mg/L	J	0.00200	0.0500	11/5/2008 1:57:17 PM
Selenium	0.0038	mg/L	J	0.00300	0.0100	11/5/2008 1:57:17 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 1:57:17 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 1:57:17 PM
Vanadium	0.0189	mg/L	J	0.00100	0.0200	11/5/2008 1:57:17 PM
Zinc	0.0200	mg/L		0.00300	0.0100	11/5/2008 1:57:17 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 10:45:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 10:45:00 PM
Benzene	ND	µg/L		0.13	1.0	10/20/2008 10:45:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 10:45:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 10:45:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 10:45:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 10:45:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 10:45:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 10:45:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 10:45:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	10/20/2008 10:45:00 PM
Chloroethane	ND	µg/L		0.94	1.0	10/20/2008 10:45:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 10:45:00 PM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 10:45:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 10:45:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 10:45:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 10:45:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 10:45:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 10:45:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/20/2008 10:45:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-13
Client Sample ID:	MW-8	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 10:07:00 AM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 10:45:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/20/2008 10:45:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 10:45:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 10:45:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	10/20/2008 10:45:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 10:45:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 10:45:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 10:45:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 10:45:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/20/2008 10:45:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 10:45:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 10:45:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 10:45:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 10:45:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 10:45:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 10:45:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 10:45:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 10:45:00 PM
Toluene	0.2	µg/L	J	0.17	1.0	10/20/2008 10:45:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 10:45:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 10:45:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 10:45:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 10:45:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 10:45:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 10:45:00 PM
Vinyl chloride	0.7	µg/L	J	0.22	1.0	10/20/2008 10:45:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/20/2008 10:45:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 10:45:00 PM
Surr: 1,2-Dichloroethane-d4	82.4	%REC			80-120	10/20/2008 10:45:00 PM
Surr: 4-Bromofluorobenzene	111	%REC			86-115	10/20/2008 10:45:00 PM
Surr: Dibromofluoromethane	96.1	%REC			80-120	10/20/2008 10:45:00 PM
Surr: Toluene-d8	109	%REC			88-110	10/20/2008 10:45:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	1,160	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-14
Client Sample ID:	SPRING B	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 1:45:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	LIQUID

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 2:03:01 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 2:03:01 PM
Barium	0.0140	mg/L	J	0.00100	0.100	11/5/2008 2:03:01 PM
Beryllium	ND	mg/L		0.00020	0.0010	11/5/2008 2:03:01 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 2:03:01 PM
Chromium	ND	mg/L		0.00100	0.0100	11/5/2008 2:03:01 PM
Cobalt	ND	mg/L		0.00100	0.0100	11/5/2008 2:03:01 PM
Copper	ND	mg/L		0.00100	0.0100	11/5/2008 2:03:01 PM
Lead	0.0002	mg/L	J	0.00020	0.0100	11/5/2008 2:03:01 PM
Nickel	ND	mg/L		0.00200	0.0500	11/5/2008 2:03:01 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 2:03:01 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 2:03:01 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 2:03:01 PM
Vanadium	ND	mg/L		0.00100	0.0200	11/5/2008 2:03:01 PM
Zinc	0.0031	mg/L	J	0.00300	0.0100	11/5/2008 2:03:01 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 11:18:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 11:18:00 PM
Benzene	ND	µg/L		0.13	1.0	10/20/2008 11:18:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 11:18:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 11:18:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 11:18:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 11:18:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 11:18:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 11:18:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 11:18:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	10/20/2008 11:18:00 PM
Chloroethane	ND	µg/L		0.94	1.0	10/20/2008 11:18:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 11:18:00 PM
Chloromethane	ND	µg/L		0.33	1.0	10/20/2008 11:18:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 11:18:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 11:18:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 11:18:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 11:18:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 11:18:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/20/2008 11:18:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-14
Client Sample ID:	SPRING B	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 1:45:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	LIQUID

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 11:18:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/20/2008 11:18:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 11:18:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 11:18:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	10/20/2008 11:18:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 11:18:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 11:18:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 11:18:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 11:18:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/20/2008 11:18:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 11:18:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 11:18:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 11:18:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 11:18:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 11:18:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 11:18:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 11:18:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 11:18:00 PM
Toluene	ND	µg/L		0.17	1.0	10/20/2008 11:18:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 11:18:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 11:18:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 11:18:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 11:18:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 11:18:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 11:18:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	10/20/2008 11:18:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/20/2008 11:18:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 11:18:00 PM
Surr: 1,2-Dichloroethane-d4	75.7	%REC	S		80-120	10/20/2008 11:18:00 PM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	10/20/2008 11:18:00 PM
Surr: Dibromofluoromethane	87.2	%REC			80-120	10/20/2008 11:18:00 PM
Surr: Toluene-d8	110	%REC			88-110	10/20/2008 11:18:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	11	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-15
Client Sample ID:	CHASTAIN WELL	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 2:30:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 2:08:45 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 2:08:45 PM
Barium	0.0080	mg/L	J	0.00100	0.100	11/5/2008 2:08:45 PM
Beryllium	ND	mg/L		0.00020	0.0010	11/5/2008 2:08:45 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 2:08:45 PM
Chromium	ND	mg/L		0.00100	0.0100	11/5/2008 2:08:45 PM
Cobalt	ND	mg/L		0.00100	0.0100	11/5/2008 2:08:45 PM
Copper	0.400	mg/L		0.00100	0.0100	11/5/2008 2:08:45 PM
Lead	0.0019	mg/L	J	0.00020	0.0100	11/5/2008 2:08:45 PM
Nickel	0.0203	mg/L	J	0.00200	0.0500	11/5/2008 2:08:45 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 2:08:45 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 2:08:45 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 2:08:45 PM
Vanadium	ND	mg/L		0.00100	0.0200	11/5/2008 2:08:45 PM
Zinc	0.0090	mg/L	J	0.00300	0.0100	11/5/2008 2:08:45 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 11:51:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 11:51:00 PM
Benzene	ND	µg/L		0.13	1.0	10/20/2008 11:51:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 11:51:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 11:51:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 11:51:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 11:51:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 11:51:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 11:51:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 11:51:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	10/20/2008 11:51:00 PM
Chloroethane	ND	µg/L		0.94	1.0	10/20/2008 11:51:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 11:51:00 PM
Chloromethane	ND	µg/L		0.33	1.0	10/20/2008 11:51:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 11:51:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 11:51:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 11:51:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 11:51:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 11:51:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/20/2008 11:51:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-15
Client Sample ID:	CHASTAIN WELL	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 2:30:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 11:51:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/20/2008 11:51:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 11:51:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 11:51:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	10/20/2008 11:51:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 11:51:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 11:51:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 11:51:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 11:51:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/20/2008 11:51:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 11:51:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 11:51:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 11:51:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 11:51:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 11:51:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 11:51:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 11:51:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 11:51:00 PM
Toluene	ND	µg/L		0.17	1.0	10/20/2008 11:51:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 11:51:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 11:51:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 11:51:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 11:51:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 11:51:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 11:51:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	10/20/2008 11:51:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/20/2008 11:51:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 11:51:00 PM
Surr: 1,2-Dichloroethane-d4	70.7	%REC	S		80-120	10/20/2008 11:51:00 PM
Surr: 4-Bromofluorobenzene	109	%REC			86-115	10/20/2008 11:51:00 PM
Surr: Dibromofluoromethane	83.5	%REC			80-120	10/20/2008 11:51:00 PM
Surr: Toluene-d8	109	%REC			88-110	10/20/2008 11:51:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	1	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-16
Client Sample ID:	MCCALL WELL	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 2:45:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 2:14:30 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 2:14:30 PM
Barium	0.0041	mg/L	J	0.00100	0.100	11/5/2008 2:14:30 PM
Beryllium	ND	mg/L		0.00020	0.0010	11/5/2008 2:14:30 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 2:14:30 PM
Chromium	0.0023	mg/L	J	0.00100	0.0100	11/5/2008 2:14:30 PM
Cobalt	ND	mg/L		0.00100	0.0100	11/5/2008 2:14:30 PM
Copper	0.0176	mg/L		0.00100	0.0100	11/5/2008 2:14:30 PM
Lead	0.0005	mg/L	J	0.00020	0.0100	11/5/2008 2:14:30 PM
Nickel	ND	mg/L		0.00200	0.0500	11/5/2008 2:14:30 PM
Selenium	0.0056	mg/L	J	0.00300	0.0100	11/5/2008 2:14:30 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 2:14:30 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 2:14:30 PM
Vanadium	0.0026	mg/L	J	0.00100	0.0200	11/5/2008 2:14:30 PM
Zinc	0.0545	mg/L		0.00300	0.0100	11/5/2008 2:14:30 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/21/2008 12:23:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	10/21/2008 12:23:00 AM
Benzene	ND	µg/L		0.13	1.0	10/21/2008 12:23:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	10/21/2008 12:23:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/21/2008 12:23:00 AM
Bromoform	ND	µg/L		0.40	1.0	10/21/2008 12:23:00 AM
Bromomethane	ND	µg/L		0.50	1.0	10/21/2008 12:23:00 AM
2-Butanone	ND	µg/L		4.68	10.0	10/21/2008 12:23:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	10/21/2008 12:23:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/21/2008 12:23:00 AM
Chlorobenzene	ND	µg/L		0.18	1.0	10/21/2008 12:23:00 AM
Chloroethane	ND	µg/L		0.94	1.0	10/21/2008 12:23:00 AM
Chloroform	ND	µg/L		0.25	1.0	10/21/2008 12:23:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/21/2008 12:23:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/21/2008 12:23:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/21/2008 12:23:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/21/2008 12:23:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	10/21/2008 12:23:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/21/2008 12:23:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/21/2008 12:23:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-16
Client Sample ID:	MCCALL WELL	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 2:45:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/21/2008 12:23:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/21/2008 12:23:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/21/2008 12:23:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/21/2008 12:23:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	10/21/2008 12:23:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/21/2008 12:23:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/21/2008 12:23:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 12:23:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 12:23:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/21/2008 12:23:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	10/21/2008 12:23:00 AM
Iodomethane	ND	µg/L		3.44	10.0	10/21/2008 12:23:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	10/21/2008 12:23:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/21/2008 12:23:00 AM
Styrene	ND	µg/L		0.24	1.0	10/21/2008 12:23:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/21/2008 12:23:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/21/2008 12:23:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/21/2008 12:23:00 AM
Toluene	ND	µg/L		0.17	1.0	10/21/2008 12:23:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/21/2008 12:23:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/21/2008 12:23:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/21/2008 12:23:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/21/2008 12:23:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/21/2008 12:23:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	10/21/2008 12:23:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/21/2008 12:23:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/21/2008 12:23:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/21/2008 12:23:00 AM
Surr: 1,2-Dichloroethane-d4	82.5	%REC			80-120	10/21/2008 12:23:00 AM
Surr: 4-Bromofluorobenzene	110	%REC			86-115	10/21/2008 12:23:00 AM
Surr: Dibromofluoromethane	88.7	%REC			80-120	10/21/2008 12:23:00 AM
Surr: Toluene-d8	112	%REC	S		88-110	10/21/2008 12:23:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	8	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-17
Client Sample ID:	MW-1 DUP	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 10:55:00 AM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 2:20:16 PM
Arsenic	0.0021	mg/L	J	0.00200	0.0100	11/5/2008 2:20:16 PM
Barium	0.235	mg/L		0.00100	0.100	11/5/2008 2:20:16 PM
Beryllium	0.0005	mg/L	J	0.00020	0.0010	11/5/2008 2:20:16 PM
Cadmium	0.0006	mg/L	J	0.00020	0.0010	11/5/2008 2:20:16 PM
Chromium	0.0074	mg/L	J	0.00100	0.0100	11/5/2008 2:20:16 PM
Cobalt	0.0716	mg/L		0.00100	0.0100	11/5/2008 2:20:16 PM
Copper	0.0216	mg/L		0.00100	0.0100	11/5/2008 2:20:16 PM
Lead	0.0075	mg/L	J	0.00020	0.0100	11/5/2008 2:20:16 PM
Nickel	0.0088	mg/L	J	0.00200	0.0500	11/5/2008 2:20:16 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 2:20:16 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 2:20:16 PM
Thallium	0.0009	mg/L	J	0.00020	0.0050	11/5/2008 2:20:16 PM
Vanadium	0.0134	mg/L	J	0.00100	0.0200	11/5/2008 2:20:16 PM
Zinc	0.0658	mg/L		0.00300	0.0100	11/5/2008 2:20:16 PM

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

VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/20/2008 5:19:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/20/2008 5:19:00 PM
Benzene	3.4	µg/L		0.13	1.0	10/20/2008 5:19:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/20/2008 5:19:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/20/2008 5:19:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/20/2008 5:19:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/20/2008 5:19:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/20/2008 5:19:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	10/20/2008 5:19:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/20/2008 5:19:00 PM
Chlorobenzene	2.2	µg/L		0.18	1.0	10/20/2008 5:19:00 PM
Chloroethane	3.7	µg/L		0.94	1.0	10/20/2008 5:19:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/20/2008 5:19:00 PM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/20/2008 5:19:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/20/2008 5:19:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/20/2008 5:19:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/20/2008 5:19:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/20/2008 5:19:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-17
Client Sample ID:	MW-1 DUP	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 10:55:00 AM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/20/2008 5:19:00 PM
1,4-Dichlorobenzene	4.7	µg/L		0.29	1.0	10/20/2008 5:19:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/20/2008 5:19:00 PM
1,1-Dichloroethane	0.4	µg/L	J	0.38	1.0	10/20/2008 5:19:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/20/2008 5:19:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/20/2008 5:19:00 PM
cis-1,2-Dichloroethene	1.3	µg/L		0.23	1.0	10/20/2008 5:19:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/20/2008 5:19:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/20/2008 5:19:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 5:19:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/20/2008 5:19:00 PM
Ethylbenzene	0.2	µg/L	J	0.18	1.0	10/20/2008 5:19:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/20/2008 5:19:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/20/2008 5:19:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/20/2008 5:19:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/20/2008 5:19:00 PM
Styrene	ND	µg/L		0.24	1.0	10/20/2008 5:19:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/20/2008 5:19:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/20/2008 5:19:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/20/2008 5:19:00 PM
Toluene	0.6	µg/L	J	0.17	1.0	10/20/2008 5:19:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/20/2008 5:19:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/20/2008 5:19:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/20/2008 5:19:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/20/2008 5:19:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/20/2008 5:19:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/20/2008 5:19:00 PM
Vinyl chloride	14.0	µg/L		0.22	1.0	10/20/2008 5:19:00 PM
o-Xylene	0.4	µg/L	J	0.19	1.0	10/20/2008 5:19:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/20/2008 5:19:00 PM
Surr: 1,2-Dichloroethane-d4	94.0	%REC			80-120	10/20/2008 5:19:00 PM
Surr: 4-Bromofluorobenzene	110	%REC			86-115	10/20/2008 5:19:00 PM
Surr: Dibromofluoromethane	95.4	%REC			80-120	10/20/2008 5:19:00 PM
Surr: Toluene-d8	108	%REC			88-110	10/20/2008 5:19:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	442	mg/L		1.0	1	10/17/2008 11:50:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-18
Client Sample ID:	MW-5A DUP	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 1:20:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 2:48:52 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 2:48:52 PM
Barium	0.0947	mg/L	J	0.00100	0.100	11/5/2008 2:48:52 PM
Beryllium	0.0007	mg/L	J	0.00020	0.0010	11/5/2008 2:48:52 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 2:48:52 PM
Chromium	0.0101	mg/L		0.00100	0.0100	11/5/2008 2:48:52 PM
Cobalt	0.0164	mg/L		0.00100	0.0100	11/5/2008 2:48:52 PM
Copper	0.0096	mg/L	J	0.00100	0.0100	11/5/2008 2:48:52 PM
Lead	0.0086	mg/L	J	0.00020	0.0100	11/5/2008 2:48:52 PM
Nickel	0.0080	mg/L	J	0.00200	0.0500	11/5/2008 2:48:52 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 2:48:52 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 2:48:52 PM
Thallium	0.0006	mg/L	J	0.00020	0.0050	11/5/2008 2:48:52 PM
Vanadium	0.0117	mg/L	J	0.00100	0.0200	11/5/2008 2:48:52 PM
Zinc	0.0385	mg/L		0.00300	0.0100	11/5/2008 2:48:52 PM

NOTES:
Sample duplicate for zinc result did not meet REIC control criteria due to heterogeneous sample.
Matrix spike recovery for silver did not meet REIC control criteria due to matrix interference.

VOLATILE ORGANIC COMPOUNDS			SW8260B			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/21/2008 12:56:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	10/21/2008 12:56:00 AM
Benzene	ND	µg/L		0.13	1.0	10/21/2008 12:56:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	10/21/2008 12:56:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/21/2008 12:56:00 AM
Bromoform	ND	µg/L		0.40	1.0	10/21/2008 12:56:00 AM
Bromomethane	ND	µg/L		0.50	1.0	10/21/2008 12:56:00 AM
2-Butanone	ND	µg/L		4.68	10.0	10/21/2008 12:56:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	10/21/2008 12:56:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/21/2008 12:56:00 AM
Chlorobenzene	ND	µg/L		0.18	1.0	10/21/2008 12:56:00 AM
Chloroethane	ND	µg/L		0.94	1.0	10/21/2008 12:56:00 AM
Chloroform	ND	µg/L		0.25	1.0	10/21/2008 12:56:00 AM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/21/2008 12:56:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/21/2008 12:56:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/21/2008 12:56:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/21/2008 12:56:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	10/21/2008 12:56:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19 **Lab ID** 0810C19-18
Client Sample ID:	MW-5A DUP	**DateReceived:**	10/16/2008
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008 1:20:00 PM
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/21/2008 12:56:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/21/2008 12:56:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/21/2008 12:56:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/21/2008 12:56:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/21/2008 12:56:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/21/2008 12:56:00 AM
cis-1,2-Dichloroethene	1.8	µg/L		0.23	1.0	10/21/2008 12:56:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/21/2008 12:56:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/21/2008 12:56:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 12:56:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 12:56:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/21/2008 12:56:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	10/21/2008 12:56:00 AM
Iodomethane	ND	µg/L		3.44	10.0	10/21/2008 12:56:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	10/21/2008 12:56:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/21/2008 12:56:00 AM
Styrene	ND	µg/L		0.24	1.0	10/21/2008 12:56:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/21/2008 12:56:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/21/2008 12:56:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/21/2008 12:56:00 AM
Toluene	ND	µg/L		0.17	1.0	10/21/2008 12:56:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/21/2008 12:56:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/21/2008 12:56:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/21/2008 12:56:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/21/2008 12:56:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/21/2008 12:56:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	10/21/2008 12:56:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/21/2008 12:56:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/21/2008 12:56:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/21/2008 12:56:00 AM
Surr: 1,2-Dichloroethane-d4	88.9	%REC			80-120	10/21/2008 12:56:00 AM
Surr: 4-Bromofluorobenzene	109	%REC			86-115	10/21/2008 12:56:00 AM
Surr: Dibromofluoromethane	88.9	%REC			80-120	10/21/2008 12:56:00 AM
Surr: Toluene-d8	116	%REC	S		88-110	10/21/2008 12:56:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	63	mg/L		1.0	1	10/17/2008 12:15:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19	**Lab ID**	0810C19-19
Client Sample ID:	TRIP BLANK #4	**DateReceived:**	10/16/2008		
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008		
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/21/2008 1:28:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	10/21/2008 1:28:00 AM
Benzene	ND	µg/L		0.13	1.0	10/21/2008 1:28:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	10/21/2008 1:28:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/21/2008 1:28:00 AM
Bromoform	ND	µg/L		0.40	1.0	10/21/2008 1:28:00 AM
Bromomethane	ND	µg/L		0.50	1.0	10/21/2008 1:28:00 AM
2-Butanone	ND	µg/L		4.68	10.0	10/21/2008 1:28:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	10/21/2008 1:28:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/21/2008 1:28:00 AM
Chlorobenzene	ND	µg/L		0.18	1.0	10/21/2008 1:28:00 AM
Chloroethane	ND	µg/L		0.94	1.0	10/21/2008 1:28:00 AM
Chloroform	ND	µg/L		0.25	1.0	10/21/2008 1:28:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/21/2008 1:28:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/21/2008 1:28:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/21/2008 1:28:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/21/2008 1:28:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	10/21/2008 1:28:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/21/2008 1:28:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/21/2008 1:28:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/21/2008 1:28:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/21/2008 1:28:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/21/2008 1:28:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/21/2008 1:28:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	10/21/2008 1:28:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/21/2008 1:28:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/21/2008 1:28:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 1:28:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 1:28:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/21/2008 1:28:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	10/21/2008 1:28:00 AM
Iodomethane	ND	µg/L		3.44	10.0	10/21/2008 1:28:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	10/21/2008 1:28:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/21/2008 1:28:00 AM
Styrene	ND	µg/L		0.24	1.0	10/21/2008 1:28:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/21/2008 1:28:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/21/2008 1:28:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C19	**Lab ID**	0810C19-19
Client Sample ID:	TRIP BLANK #4	**DateReceived:**	10/16/2008		
Project:	OLD HIGHLANDS LANDFILL	**Collection Date:**	10/13/2008		
Site ID:	OLD HIGHLANDS N.C	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Tetrachloroethene	ND	µg/L		0.20	1.0	10/21/2008 1:28:00 AM
Toluene	ND	µg/L		0.17	1.0	10/21/2008 1:28:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/21/2008 1:28:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/21/2008 1:28:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/21/2008 1:28:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/21/2008 1:28:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/21/2008 1:28:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	10/21/2008 1:28:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/21/2008 1:28:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/21/2008 1:28:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/21/2008 1:28:00 AM
Surr: 1,2-Dichloroethane-d4	71.0	%REC	S		80-120	10/21/2008 1:28:00 AM
Surr: 4-Bromofluorobenzene	105	%REC			86-115	10/21/2008 1:28:00 AM
Surr: Dibromofluoromethane	89.8	%REC			80-120	10/21/2008 1:28:00 AM
Surr: Toluene-d8	109	%REC			88-110	10/21/2008 1:28:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

CHAIN OF CUSTODY RECORD NO. 249247 1 of 3

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

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

CONTACT PERSON: Chris Stahl
TELEPHONE #: 828-349-2100
FAX #:
E-MAIL ADDRESS:
SITE ID & STATE: Old Highlands N.C
PROJECT ID: Old Highlands Landfill
SAMPLER: Farley / McBride / 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 →

SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MATRIX	SAMPLE COMP / GRAB	ANALYSIS REQUESTED & METHOD: N.C Appendix I TSS	COMMENTS
MW-1	6	10-13-08 1055	H2O	Grab		Analyze Dis Metals for Any Total Metals Detections.
MW-2		1034				
MW-4		0817				
MW-4A		0838				
MW-5		1312				
MW-5A		1320				
MW-5B		1335				
MW-5C		1305				
MW-6		1500				
MW-6A		1455				

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
R Farley	10-16-08 0830		10-16-8 0930				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Temperature Upon Arrival 2.0 °C	☐ FAX Results	☐ Email Results	

CHAIN OF CUSTODY RECORD NO. 249248

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

CLIENT: Macon Co Dept of Swm
ADDRESS:
CITY/STATE/ZIP:
BILL TO:
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON: Chris Stahl
TELEPHONE #:
FAX #:
E-MAIL ADDRESS:
SITE ID & STATE: Old Highlands N.C
PROJECT ID: Old Highland Land Fill
SAMPLER: Farley / McBride / 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 →

SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MATRIX	SAMPLE COMP / GRAB	ANALYSIS REQUESTED & METHOD: N.C Appendix I	ANALYSIS REQUESTED & METHOD: TSS	COMMENTS
MW-6C	6	10-13-05 1505	H2O	Grab			Analyze Dis Metals
MW-7		1537					For Any Total Metal
MW-8		1007					Detections
~~Spring A~~							NO Sample
Spring B		1345					
~~Chastain Spring~~							NO Sample
Chastain Well		1430					
McCall Well	↓	1445					
MW-1 Dup	18	1055					
MW-5A Dup	18	1320	↓	↓	↓	↓	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10-16-05 0830	[signature]	10-16-05 0830				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Temperature Upon Arrival 2° C	☐ FAX Results	☐ Email Results	

CHAIN OF CUSTODY RECORD NO. 249249 3 of 3

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

CLIENT: Macon Co Dept of SWM
ADDRESS:
CITY/STATE/ZIP:
BILL TO:
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON:
TELEPHONE #:
FAX #:
E-MAIL ADDRESS:
SITE ID & STATE: Old Highlands N.C
PROJECT ID: Old Highlands Landfill
SAMPLER: Farley/McBride/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 →

SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MATRIX	SAMPLE COMP / GRAB	ANALYSIS REQUESTED & METHOD: N.C Appendix I VOC's	COMMENTS
Trip Blank #4	1-VOA					

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10-16-04 0830	[signature]	10-16-04 0830				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Temperature Upon Arrival 2.0 °C	☐ FAX Results	☐ Email Results	

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...

November 07, 2008

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

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

RE: HIGHLAND C+D

Order No.: 0810C23

Dear Mr. Chris Stahl:

REI Consultants, Inc. received 5 sample(s) on 10/16/2008 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,

Beth Johnson

Beth Johnson
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

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...

Report Narrative

Project Manager:: **Beth Johnson** Beth Johnson

WO#: **0810C23**
Date: **11/7/2008**

CLIENT: MACON COUNTY SOLID WASTE MAN
Project: HIGHLAND C+D

All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. REI Consultants, Inc. (REIC) technical managers have verified compliance of reported results with the REIC's Quality Program and SOPs, except as noted in this case narrative. Any deviation from compliance is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All samples were analyzed using the methods stated in the analytical report without modification, unless otherwise noted.

All sample results are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

The test results in this report meet all NELAP requirements for parameters for which accreditations are required or available. Any exceptions are noted in this report. This report may not be reproduced, except in full, without the written approval of REIC.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after five years unless otherwise arranged by the client via written notification or contract requirement.

If you have any questions please contact the project manager whose name is listed above.

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C23 **Lab ID** 0810C23-01
Client Sample ID:	MW-A	**DateReceived:**	10/16/2008
Project:	HIGHLAND C+D	**Collection Date:**	10/13/2008 8:58:00 AM
Site ID:	HIGHLANDS NC	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 9:08:11 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 9:08:11 PM
Barium	0.0144	mg/L	J	0.00100	0.100	11/5/2008 9:08:11 PM
Beryllium	ND	mg/L		0.00020	0.0010	11/5/2008 9:08:11 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 9:08:11 PM
Chromium	ND	mg/L		0.00100	0.0100	11/5/2008 9:08:11 PM
Cobalt	ND	mg/L		0.00100	0.0100	11/5/2008 9:08:11 PM
Copper	ND	mg/L		0.00100	0.0100	11/5/2008 9:08:11 PM
Lead	0.0003	mg/L	J	0.00020	0.0100	11/5/2008 9:08:11 PM
Nickel	ND	mg/L		0.00200	0.0500	11/5/2008 9:08:11 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 9:08:11 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 9:08:11 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 9:08:11 PM
Vanadium	0.0026	mg/L	J	0.00100	0.0200	11/5/2008 9:08:11 PM
Zinc	0.0072	mg/L	J	0.00300	0.0100	11/5/2008 9:08:11 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/21/2008 2:33:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	10/21/2008 2:33:00 AM
Benzene	ND	µg/L		0.13	1.0	10/21/2008 2:33:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	10/21/2008 2:33:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/21/2008 2:33:00 AM
Bromoform	ND	µg/L		0.40	1.0	10/21/2008 2:33:00 AM
Bromomethane	ND	µg/L		0.50	1.0	10/21/2008 2:33:00 AM
2-Butanone	ND	µg/L		4.68	10.0	10/21/2008 2:33:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	10/21/2008 2:33:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/21/2008 2:33:00 AM
Chlorobenzene	ND	µg/L		0.18	1.0	10/21/2008 2:33:00 AM
Chloroethane	ND	µg/L		0.94	1.0	10/21/2008 2:33:00 AM
Chloroform	ND	µg/L		0.25	1.0	10/21/2008 2:33:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/21/2008 2:33:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/21/2008 2:33:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/21/2008 2:33:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/21/2008 2:33:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	10/21/2008 2:33:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/21/2008 2:33:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/21/2008 2:33:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C23 **Lab ID** 0810C23-01
Client Sample ID:	MW-A	**DateReceived:**	10/16/2008
Project:	HIGHLAND C+D	**Collection Date:**	10/13/2008 8:58:00 AM
Site ID:	HIGHLANDS NC	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/21/2008 2:33:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/21/2008 2:33:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/21/2008 2:33:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/21/2008 2:33:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	10/21/2008 2:33:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/21/2008 2:33:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/21/2008 2:33:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 2:33:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 2:33:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/21/2008 2:33:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	10/21/2008 2:33:00 AM
Iodomethane	ND	µg/L		3.44	10.0	10/21/2008 2:33:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	10/21/2008 2:33:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/21/2008 2:33:00 AM
Styrene	ND	µg/L		0.24	1.0	10/21/2008 2:33:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/21/2008 2:33:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/21/2008 2:33:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/21/2008 2:33:00 AM
Toluene	ND	µg/L		0.17	1.0	10/21/2008 2:33:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/21/2008 2:33:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/21/2008 2:33:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/21/2008 2:33:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/21/2008 2:33:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/21/2008 2:33:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	10/21/2008 2:33:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/21/2008 2:33:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/21/2008 2:33:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/21/2008 2:33:00 AM
Surr: 1,2-Dichloroethane-d4	76.8	%REC	S		80-120	10/21/2008 2:33:00 AM
Surr: 4-Bromofluorobenzene	106	%REC			86-115	10/21/2008 2:33:00 AM
Surr: Dibromofluoromethane	87.3	%REC			80-120	10/21/2008 2:33:00 AM
Surr: Toluene-d8	109	%REC			88-110	10/21/2008 2:33:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	9	mg/L		1.0	1	10/17/2008 12:15:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C23 **Lab ID** 0810C23-02
Client Sample ID:	MW-B	**DateReceived:**	10/16/2008
Project:	HIGHLAND C+D	**Collection Date:**	10/13/2008 9:39:00 AM
Site ID:	HIGHLANDS NC	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 9:13:58 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 9:13:58 PM
Barium	0.0354	mg/L	J	0.00100	0.100	11/5/2008 9:13:58 PM
Beryllium	0.0002	mg/L	J	0.00020	0.0010	11/5/2008 9:13:58 PM
Cadmium	0.0003	mg/L	J	0.00020	0.0010	11/5/2008 9:13:58 PM
Chromium	0.0019	mg/L	J	0.00100	0.0100	11/5/2008 9:13:58 PM
Cobalt	0.0041	mg/L	J	0.00100	0.0100	11/5/2008 9:13:58 PM
Copper	0.0041	mg/L	J	0.00100	0.0100	11/5/2008 9:13:58 PM
Lead	0.0011	mg/L	J	0.00020	0.0100	11/5/2008 9:13:58 PM
Nickel	0.0021	mg/L	J	0.00200	0.0500	11/5/2008 9:13:58 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 9:13:58 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 9:13:58 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 9:13:58 PM
Vanadium	0.0029	mg/L	J	0.00100	0.0200	11/5/2008 9:13:58 PM
Zinc	0.0052	mg/L	J	0.00300	0.0100	11/5/2008 9:13:58 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/21/2008 3:06:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	10/21/2008 3:06:00 AM
Benzene	0.2	µg/L	J	0.13	1.0	10/21/2008 3:06:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	10/21/2008 3:06:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/21/2008 3:06:00 AM
Bromoform	ND	µg/L		0.40	1.0	10/21/2008 3:06:00 AM
Bromomethane	ND	µg/L		0.50	1.0	10/21/2008 3:06:00 AM
2-Butanone	ND	µg/L		4.68	10.0	10/21/2008 3:06:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	10/21/2008 3:06:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/21/2008 3:06:00 AM
Chlorobenzene	ND	µg/L		0.18	1.0	10/21/2008 3:06:00 AM
Chloroethane	ND	µg/L		0.94	1.0	10/21/2008 3:06:00 AM
Chloroform	ND	µg/L		0.25	1.0	10/21/2008 3:06:00 AM
Chloromethane	0.9	µg/L	J	0.33	1.0	10/21/2008 3:06:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/21/2008 3:06:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/21/2008 3:06:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/21/2008 3:06:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	10/21/2008 3:06:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/21/2008 3:06:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/21/2008 3:06:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C23 **Lab ID** 0810C23-02
Client Sample ID:	MW-B	**DateReceived:**	10/16/2008
Project:	HIGHLAND C+D	**Collection Date:**	10/13/2008 9:39:00 AM
Site ID:	HIGHLANDS NC	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/21/2008 3:06:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/21/2008 3:06:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/21/2008 3:06:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/21/2008 3:06:00 AM
cis-1,2-Dichloroethene	0.2	µg/L	J	0.23	1.0	10/21/2008 3:06:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/21/2008 3:06:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/21/2008 3:06:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 3:06:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 3:06:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/21/2008 3:06:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	10/21/2008 3:06:00 AM
Iodomethane	ND	µg/L		3.44	10.0	10/21/2008 3:06:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	10/21/2008 3:06:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/21/2008 3:06:00 AM
Styrene	ND	µg/L		0.24	1.0	10/21/2008 3:06:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/21/2008 3:06:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/21/2008 3:06:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/21/2008 3:06:00 AM
Toluene	ND	µg/L		0.17	1.0	10/21/2008 3:06:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/21/2008 3:06:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/21/2008 3:06:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/21/2008 3:06:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/21/2008 3:06:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/21/2008 3:06:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	10/21/2008 3:06:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/21/2008 3:06:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/21/2008 3:06:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/21/2008 3:06:00 AM
Surr: 1,2-Dichloroethane-d4	73.0	%REC	S		80-120	10/21/2008 3:06:00 AM
Surr: 4-Bromofluorobenzene	99.8	%REC			86-115	10/21/2008 3:06:00 AM
Surr: Dibromofluoromethane	90.7	%REC			80-120	10/21/2008 3:06:00 AM
Surr: Toluene-d8	109	%REC			88-110	10/21/2008 3:06:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	100	mg/L		1.0	1	10/17/2008 12:15:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C23 **Lab ID** 0810C23-03
Client Sample ID:	WSW-1	**DateReceived:**	10/16/2008
Project:	HIGHLAND C+D	**Collection Date:**	10/13/2008 9:15:00 AM
Site ID:	HIGHLANDS NC	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 9:31:10 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 9:31:10 PM
Barium	0.0110	mg/L	J	0.00100	0.100	11/5/2008 9:31:10 PM
Beryllium	ND	mg/L		0.00020	0.0010	11/5/2008 9:31:10 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 9:31:10 PM
Chromium	ND	mg/L		0.00100	0.0100	11/5/2008 9:31:10 PM
Cobalt	ND	mg/L		0.00100	0.0100	11/5/2008 9:31:10 PM
Copper	ND	mg/L		0.00100	0.0100	11/5/2008 9:31:10 PM
Lead	ND	mg/L		0.00020	0.0100	11/5/2008 9:31:10 PM
Nickel	ND	mg/L		0.00200	0.0500	11/5/2008 9:31:10 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 9:31:10 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 9:31:10 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 9:31:10 PM
Vanadium	ND	mg/L		0.00100	0.0200	11/5/2008 9:31:10 PM
Zinc	0.0041	mg/L	J	0.00300	0.0100	11/5/2008 9:31:10 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/21/2008 3:38:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	10/21/2008 3:38:00 AM
Benzene	ND	µg/L		0.13	1.0	10/21/2008 3:38:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	10/21/2008 3:38:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/21/2008 3:38:00 AM
Bromoform	ND	µg/L		0.40	1.0	10/21/2008 3:38:00 AM
Bromomethane	ND	µg/L		0.50	1.0	10/21/2008 3:38:00 AM
2-Butanone	ND	µg/L		4.68	10.0	10/21/2008 3:38:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	10/21/2008 3:38:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/21/2008 3:38:00 AM
Chlorobenzene	ND	µg/L		0.18	1.0	10/21/2008 3:38:00 AM
Chloroethane	ND	µg/L		0.94	1.0	10/21/2008 3:38:00 AM
Chloroform	ND	µg/L		0.25	1.0	10/21/2008 3:38:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/21/2008 3:38:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/21/2008 3:38:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/21/2008 3:38:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/21/2008 3:38:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	10/21/2008 3:38:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/21/2008 3:38:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/21/2008 3:38:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C23 **Lab ID** 0810C23-03
Client Sample ID:	WSW-1	**DateReceived:**	10/16/2008
Project:	HIGHLAND C+D	**Collection Date:**	10/13/2008 9:15:00 AM
Site ID:	HIGHLANDS NC	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/21/2008 3:38:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/21/2008 3:38:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/21/2008 3:38:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/21/2008 3:38:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	10/21/2008 3:38:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/21/2008 3:38:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/21/2008 3:38:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 3:38:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 3:38:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/21/2008 3:38:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	10/21/2008 3:38:00 AM
Iodomethane	ND	µg/L		3.44	10.0	10/21/2008 3:38:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	10/21/2008 3:38:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/21/2008 3:38:00 AM
Styrene	ND	µg/L		0.24	1.0	10/21/2008 3:38:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/21/2008 3:38:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/21/2008 3:38:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/21/2008 3:38:00 AM
Toluene	ND	µg/L		0.17	1.0	10/21/2008 3:38:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/21/2008 3:38:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/21/2008 3:38:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/21/2008 3:38:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/21/2008 3:38:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/21/2008 3:38:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	10/21/2008 3:38:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/21/2008 3:38:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/21/2008 3:38:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/21/2008 3:38:00 AM
Surr: 1,2-Dichloroethane-d4	83.1	%REC			80-120	10/21/2008 3:38:00 AM
Surr: 4-Bromofluorobenzene	97.4	%REC			86-115	10/21/2008 3:38:00 AM
Surr: Dibromofluoromethane	86.9	%REC			80-120	10/21/2008 3:38:00 AM
Surr: Toluene-d8	110	%REC	S		88-110	10/21/2008 3:38:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	2	mg/L		1.0	1	10/17/2008 12:15:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C23 **Lab ID** 0810C23-04
Client Sample ID:	WSW-1 DUP	**DateReceived:**	10/16/2008
Project:	HIGHLAND C+D	**Collection Date:**	10/13/2008 9:15:00 AM
Site ID:	HIGHLANDS NC	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020**			Analyst: **DL**
Antimony	ND	mg/L		0.00040	0.0060	11/5/2008 9:36:55 PM
Arsenic	ND	mg/L		0.00200	0.0100	11/5/2008 9:36:55 PM
Barium	0.0112	mg/L	J	0.00100	0.100	11/5/2008 9:36:55 PM
Beryllium	ND	mg/L		0.00020	0.0010	11/5/2008 9:36:55 PM
Cadmium	ND	mg/L		0.00020	0.0010	11/5/2008 9:36:55 PM
Chromium	ND	mg/L		0.00100	0.0100	11/5/2008 9:36:55 PM
Cobalt	ND	mg/L		0.00100	0.0100	11/5/2008 9:36:55 PM
Copper	ND	mg/L		0.00100	0.0100	11/5/2008 9:36:55 PM
Lead	ND	mg/L		0.00020	0.0100	11/5/2008 9:36:55 PM
Nickel	ND	mg/L		0.00200	0.0500	11/5/2008 9:36:55 PM
Selenium	ND	mg/L		0.00300	0.0100	11/5/2008 9:36:55 PM
Silver	ND	mg/L		0.00100	0.0100	11/5/2008 9:36:55 PM
Thallium	ND	mg/L		0.00020	0.0050	11/5/2008 9:36:55 PM
Vanadium	ND	mg/L		0.00100	0.0200	11/5/2008 9:36:55 PM
Zinc	0.0032	mg/L	J	0.00300	0.0100	11/5/2008 9:36:55 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/21/2008 2:01:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	10/21/2008 2:01:00 AM
Benzene	ND	µg/L		0.13	1.0	10/21/2008 2:01:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	10/21/2008 2:01:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/21/2008 2:01:00 AM
Bromoform	ND	µg/L		0.40	1.0	10/21/2008 2:01:00 AM
Bromomethane	ND	µg/L		0.50	1.0	10/21/2008 2:01:00 AM
2-Butanone	ND	µg/L		4.68	10.0	10/21/2008 2:01:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	10/21/2008 2:01:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/21/2008 2:01:00 AM
Chlorobenzene	ND	µg/L		0.18	1.0	10/21/2008 2:01:00 AM
Chloroethane	ND	µg/L		0.94	1.0	10/21/2008 2:01:00 AM
Chloroform	ND	µg/L		0.25	1.0	10/21/2008 2:01:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/21/2008 2:01:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/21/2008 2:01:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/21/2008 2:01:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/21/2008 2:01:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	10/21/2008 2:01:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/21/2008 2:01:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/21/2008 2:01:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C23 **Lab ID** 0810C23-04
Client Sample ID:	WSW-1 DUP	**DateReceived:**	10/16/2008
Project:	HIGHLAND C+D	**Collection Date:**	10/13/2008 9:15:00 AM
Site ID:	HIGHLANDS NC	**Matrix:**	GROUNDWATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/21/2008 2:01:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/21/2008 2:01:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/21/2008 2:01:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/21/2008 2:01:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	10/21/2008 2:01:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/21/2008 2:01:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/21/2008 2:01:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 2:01:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/21/2008 2:01:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/21/2008 2:01:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	10/21/2008 2:01:00 AM
Iodomethane	ND	µg/L		3.44	10.0	10/21/2008 2:01:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	10/21/2008 2:01:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/21/2008 2:01:00 AM
Styrene	ND	µg/L		0.24	1.0	10/21/2008 2:01:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/21/2008 2:01:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/21/2008 2:01:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/21/2008 2:01:00 AM
Toluene	ND	µg/L		0.17	1.0	10/21/2008 2:01:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/21/2008 2:01:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/21/2008 2:01:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/21/2008 2:01:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/21/2008 2:01:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/21/2008 2:01:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	10/21/2008 2:01:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/21/2008 2:01:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/21/2008 2:01:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/21/2008 2:01:00 AM
Surr: 1,2-Dichloroethane-d4	78.6	%REC	S		80-120	10/21/2008 2:01:00 AM
Surr: 4-Bromofluorobenzene	109	%REC			86-115	10/21/2008 2:01:00 AM
Surr: Dibromofluoromethane	89.6	%REC			80-120	10/21/2008 2:01:00 AM
Surr: Toluene-d8	109	%REC			88-110	10/21/2008 2:01:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **GV**
Total Suspended Solids	6	mg/L		1.0	1	10/17/2008 12:15:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C23	**Lab ID**	0810C23-05
Client Sample ID:	TRIP BLANK #	**DateReceived:**	10/16/2008		
Project:	HIGHLAND C+D	**Collection Date:**	10/13/2008		
Site ID:	HIGHLANDS NC	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	20.0	10/23/2008 3:04:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	10/23/2008 3:04:00 PM
Benzene	ND	µg/L		0.13	1.0	10/23/2008 3:04:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	10/23/2008 3:04:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/23/2008 3:04:00 PM
Bromoform	ND	µg/L		0.40	1.0	10/23/2008 3:04:00 PM
Bromomethane	ND	µg/L		0.50	1.0	10/23/2008 3:04:00 PM
2-Butanone	ND	µg/L		4.68	10.0	10/23/2008 3:04:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	10/23/2008 3:04:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/23/2008 3:04:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	10/23/2008 3:04:00 PM
Chloroethane	ND	µg/L		0.94	1.0	10/23/2008 3:04:00 PM
Chloroform	ND	µg/L		0.25	1.0	10/23/2008 3:04:00 PM
Chloromethane	ND	µg/L		0.33	1.0	10/23/2008 3:04:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	10/23/2008 3:04:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	6.0	10/23/2008 3:04:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/23/2008 3:04:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	10/23/2008 3:04:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	10/23/2008 3:04:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/23/2008 3:04:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	10.0	10/23/2008 3:04:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	10/23/2008 3:04:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/23/2008 3:04:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	10/23/2008 3:04:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	10/23/2008 3:04:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	10/23/2008 3:04:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/23/2008 3:04:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/23/2008 3:04:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/23/2008 3:04:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/23/2008 3:04:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	10/23/2008 3:04:00 PM
Iodomethane	ND	µg/L		3.44	10.0	10/23/2008 3:04:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	10/23/2008 3:04:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	10/23/2008 3:04:00 PM
Styrene	ND	µg/L		0.24	1.0	10/23/2008 3:04:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	10/23/2008 3:04:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	10/23/2008 3:04:00 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 outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *07-Nov-08*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	0810C23	**Lab ID**	0810C23-05
Client Sample ID:	TRIP BLANK #	**DateReceived:**	10/16/2008		
Project:	HIGHLAND C+D	**Collection Date:**	10/13/2008		
Site ID:	HIGHLANDS NC	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Tetrachloroethene	ND	µg/L		0.20	1.0	10/23/2008 3:04:00 PM
Toluene	ND	µg/L		0.17	1.0	10/23/2008 3:04:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/23/2008 3:04:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/23/2008 3:04:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/23/2008 3:04:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/23/2008 3:04:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/23/2008 3:04:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	10/23/2008 3:04:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	10/23/2008 3:04:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/23/2008 3:04:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/23/2008 3:04:00 PM
Surr: 1,2-Dichloroethane-d4	92.7	%REC			80-120	10/23/2008 3:04:00 PM
Surr: 4-Bromofluorobenzene	107	%REC			86-115	10/23/2008 3:04:00 PM
Surr: Dibromofluoromethane	94.1	%REC			80-120	10/23/2008 3:04:00 PM
Surr: Toluene-d8	118	%REC	S		88-110	10/23/2008 3:04:00 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 outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

CHAIN OF CUSTODY RECORD NO. 249246

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

CLIENT: Macon Co Dept of Swm
ADDRESS: 109 Sierra Drive
CITY/STATE/ZIP: Franklin, NC 28734
BILL TO: Same
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON: Chris Stahl
TELEPHONE #: 828-349-2100
FAX #:
E-MAIL ADDRESS:
SITE ID & STATE: Highlands N.C
PROJECT ID: Highland CtD
SAMPLER: Farley/McBride/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 (NOTE 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

SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MATRIX	SAMPLE COMP / GRAB	ANALYSIS REQUESTED & METHOD: N.C Appendix I	TSS	N.C Appendix I VOCs	COMMENTS
MW-A	6	10-13-08 0858	H2O	Grab	X	X		Analyze Dis Metals For Any Total Metal Detections.
MW-B		0939						
~~SW-1~~							No Sample AM	
WSW-1		0915						
WSW-1 Dup	18	0915						
Trip Blank #	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	10-16-08 0830		10-16-08 830				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Temperature Upon Arrival 4.6 °C	☐ FAX Results	☐ Email Results	

Appendix D

Historical Laboratory Results

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	MW-1	NC Standard	Oct-93	Jun-94	Oct-94	Mar-95	Nov-95	Apr-96	Oct-96	May-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Acetone	700	130	*	130	170	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	Benzene	1	**6.1**	*	**6**	**5.9**	*	*	*	*	*	*	**5**	**4.4**	*	**3.5**	**3.6**	**3.2**	**4.1**	**2.5**	**3.3**	*	*	*	**3.4**	**3.7**	**3.5**	**3.7**	**5.8**	1	3.9	**3.7**	**3.8**	**3.3**
	2-Butonone (MEK)	4200	*	*	**230**	**240**	*	13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	Carbon Disulfide	700	*	*	*	*	*	*	*	*	*	*	*	3.2	3.7	4.4	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	Chlorobenzene	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.3	*	1	1	1.3	*	*	*	*	*	*	*	*	100	*	*	*	*
	Chloroethane	2800	44.1	*	*	*	*	*	*	*	*	*	*	3.4	*	2.7	2	1.9	*	1.6	1.3	*	*	*	*	*	*	*	*	3	*	*	3.6	2.2
	1,4-Dichlorobenzene	1.4	13.3	*	*	*	*	*	*	*	*	*	*	*	*	3.2	3.2	3.6	4	2.6	4	*	*	5.8	5.7	*	*	**5.5**	**5.8**	10	*	*	*	*
	cis-1,2-Dichloroethene	70	**443**	*	**200**	**140**	40	39	*	*	*	15.4	17	28.2	3.6	10.4	4.1	7.4	5.2	2.6	*	7.4	7.3	*	*	*	*	*	*	**1.0**	**5.6**	**5.5**	**4.9**	**4.6**
	trans-1,2-Dichloroethene	100	5.1	*	*	*	*	*	*	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5	*	*	*	1.2
	Methylene Chloride	4.6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5	*	*	*	*
	4-Methyl-2-pentanone	NL	44.6	*	*	*	30	*	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	Toluene	1000	28.1	*	19	19	13	9	*	*	*	*	*	7.7	*	2.4	3.7	1.9	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	Vinyl Chloride	0.015	**122**	*	**120**	**110**	**85**	*	**24**	*	**49**	**12.7**	**82**	**25.2**	**7.4**	**21.1**	**15**	**13**	**13**	**9.8**	**12**	**23**	**23**	**47**	**24.9**	**24.6**	**28.3**	**23.3**	**38**	1	*	1.4		*
	Xylenes total	530	20	*	18	16	*	8	*	*	*	*	*	6.5	*	4.4	10	4	4.6	3.8	3.9	*	*	*	*	*	*	*	*	1	**21.3**	**19.1**	**11.1**	**14**
Metals	Barium	2000	440	329	130	136	134	127	284	141	130	122	110	137	128	136	150	180	160	170	160	140	150	150	*	*	*	*	*	3	*	*	*	*
	Cadmium	1.75	**5**	*	*	*	*	*	*	*	*	*	*	*	*	1	*	3	*	*	*	*	*	1.4	*	*	*	*	*	100	177	157	149	169
	Chromium	50	42	20	*	*	*	*	*	*	*	*	*	*	*	*	12	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	Cobalt	NL	260	*	188	175	165	146	129	127	*	113	100	104	89	94	87	89	81	75	74	72	76	65	59.3	62	48.7	61.6	41.6	10	*	*	*	*
	Copper	1000	*	51	*	*	*	*	17	*	*	*	*	*	*	*	*	*	*	*	*	6.2	*	*	*	*	*	*	*	10	56.4	38.8	42.6	52.2
	Lead	15	**28**	**28**	*	*	*	*	11	4	*	*	*	*	3	*	*	7.2	*	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Nickel	100	*	*	*	*	*	*	*	*	31	*	*	*	*	*	35	*	*	16	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Selenium	50	*	*	*	*	*	*	*	*	*	*	*	14	9	11	*	16	8.9	*	15	13	13	*	*	*	*	*	*	50	*	*	*	*
	Silver	17.5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.7	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Vanadium	NL	60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Zinc	1050	160	73	25	19	11	26	61	*	45	104	*	*	*	*	13	32	57	16	24	72	55	26	*	*	*	*	58.6	20	*	*	*	*
																														10	44.1	19.0	21.9	24.7

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	MW-2	NC Standard	Oct-93	Jun-94	Oct-94	Mar-95	Nov-95	Apr-96	Oct-96	May-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Acetone	700	*	*	*	*	39	*	*	*	*	*	*	*	*	29.3	*	*	*	*	*	43	26	*	*	*	*	*	*	100	*	*	*	*
	Benzene	1	**3.9**	*	**5.5**	**5.3**	*	*	*	*	*	*	**3**	**2.8**	**2.6**	**2.2**	**2**	**2.2**	**2.2**	**4.6**	**1.6**	*	*	*	*	*	*	*	*	1	*	*	*	*
	2-Butanone (MEK)	4200	*	*	110	110	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	Carbon Disulfide	700	*	*	*	*	*	*	*	*	*	*	*	9.5	13.4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	Chlorobenzene	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	1.1	1	*	*	*	*	*	*	*	*	3	*	*	*	1.1
	Chloroethane	2800	20.7	*	*	*	*	*	*	*	*	*	*	7.2	5.6	7.5	6.4	16	11	5.5	6.5	11	*	*	*	*	*	*	*	10	*	*	*	2.1
	Chloroform	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5	*	*	*	*
	1,4-Dichlorobenzene	1.4	5.7	*	*	*	*	*	*	*	*	*	*	2.1	3	2.7	2.9	2.6	2.8	2.4	2.5	*	*	*	*	*	*	*	*	1	1.2	1.2	1.1	1.0
	1,1-Dichloroethane	70	*	*	5.8	5.9	*	*	*	*	*	*	*	*	*	*	*	1.1	1.5	1.5	*	*	*	*	*	*	*	*	*	5	*	*	*	*
	cis-1,2-Dichloroethene	70	*	*	**310**	65	**170**	**110**	*	*	*	44.8	39	31.6	26.6	25.3	18	26	26	19	18	15	25	7.4	7.7	7.3	9.4	6.4	7.0	5	5.4	6.2		4.2
	trans-1,2-Dichloroethene	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.2	*	*	*	*	*	*	*	*	*	*	*	*	5	*	*	*	*
	Ethylbenzene	550	*	*	6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	Tetrachloroethene (PCE)	0.7	**13.2**	*	**6.3**	*	*	*	*	*	*	*	**3**	*	*	*	**2.3**	**1.9**	**1.4**	**1.1**	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	Toluene	1000	5.37	*	12	13	11	13	**5**	26	6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	Vinyl Chloride	0.015	**42.9**	*	**49**	**40**	**66**	**81**	**18**	**34**	**23**	**19.5**	**63**	**23.9**	**24.3**	**15.7**	**12**	**22**	**15**	**13**	**12**	**9.9**	**14**	**6.4**	**6.0**	**6.1**	**7.8**	**5.1**	**6.4**	1	**6.4**	**5.9**	**4.1**	**3.5**
	Xylenes total	530	11	*	22	14	*	*	*	*	*	*	*	*	*	*	*	*	*	3.2	*	*	*	*	*	*	*	*	*	3	*	*	*	*
Metals	Barium	2000	620	408	*	100	112	*	182	*	*	76	67	78	71	75	81	82	79	*	*	70	64	58	*	*	*	*	*	100	*	*	*	*
	Cadmium	1.75	2	2	*	*	*	*	*	1	**6**	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	Chromium	50	**120**	**64**	*	*	*	*	*	*	*	*	*	*	*	*	2.9	*	*	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Cobalt	NL	300	*	38	41	27	24	21	22	*	*	*	*	*	*	11	12	*	*	*	14	12	9.7	14.6	11.9	14.5	11.8	*	10	23.2	10.4	11.9	15.2
	Copper	1000	170	122	*	*	*	*	*	9	*	*	*	*	*	*	*	*	*	*	*	11	3	2.7	*	*	*	*	*	10	12.7	*	*	*
	Lead	15	**64**	**54**	*	*	*	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Nickel	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*	*	*	*	*	*	*	*	*	50	*	*	*	*
	Selenium	50	*	*	*	*	*	*	*	*	*	*	*	11	8	*	7	*	*	*	*	5.5	6.7	*	*	*	*	*	*	10	*	*	*	*
	Zinc	1050	780	346	43	55	15	54	60	*	*	154	21	45	*	*	16	19	24	11	24	35	15	11	*	*	*	*	*	10	74.8	32.8	20.4	37.7

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	MW-4	NC Standard	Oct-93	Jun-94	Oct-94	Mar-95	Nov-95	Apr-96	Oct-96	May-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	3-Apr	3-Oct	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Benzene	1	*	*	*	*	*	*	*	*	*	*	DRY	*	*	*	**1.8**	*	*	*	*	*	*	*	*	*	*	*	*	**1**	*	**1.7**	*	*
	Carbon Disulfide	700	*	*	*	*	*	*	*	*	*	*	DRY	*	6.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**100**	*	*	*	*
	Chlorobenzene	50	*	*	*	*	*	*	*	*	*	*	DRY	*	*	*	1.8	*	*	*	*	*	*	*	*	*	*	*	*	**3**	*	*	*	*
	1,4-Dichlorobenzene	1.4	*	*	*	*	*	*	*	*	*	*	DRY	*	*	*	1.8	*	*	*	*	*	*	*	*	*	*	*	*	**10**	*	**1.4**	*	*
	cis-1,2-Dichloroethene	70	2.9	*	*	*	*	*	*	*	*	*	DRY	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**1**	*	*	*	*
	2-Hexanone	NL	*	*	*	*	*	*	*	88	*	*	DRY	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**100**	*	*	*	*
	Vinyl Chloride	0.015	**6.1**	*	*	*	*	*	*	*	*	*	DRY	*	*	*	**2.5**	*	*	*	*	*	*	*	*	*	**1.0**	*	*	**1**	*	**1.7**	*	*
Metals	Barium	2000	400	530	153	*	248	102	649	71	355	52	DRY	76	33	33	430	34	76	48	64	140	49	190	*	*	*	*	*	**100**	*	242	*	104
	Beryllium	NL	*	*	*	*	*	*	*	*	*	*	DRY	*	*	*	5	*	*	*	*	1.2	*	*	*	*	*	*	*	*	**1**	*	*	*	*
	Cadmium	1.75	1	*	*	*	*	*	*	1	*	*	DRY	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**1**	*	*	*	*
	Chromium	50	**56**	*	*	*	*	*	13	*	5	*	DRY	*	*	*	**88**	*	*	*	*	17	*	*	*	*	*	*	*	**10**	*	*	*	*
	Cobalt	NL	130	*	*	*	15	11	*	*	*	*	DRY	*	*	*	80	*	*	*	*	6.4	*	14	*	11.4	18.8	16.5	*	**10**	13	35.5	*	*
	Copper	1000	*	16	*	*	13	*	8	*	64	*	DRY	*	*	*	100	*	*	*	*	22	5.4	3.7	*	*	*	*	*	**10**	*	27.8	*	*
	Lead	15	**107**	**26**	**21**	**23**	**49**	11	**22**	**21**	**61**	11	DRY	9	*	10	**210**	*	5.3	*	*	**19**	5.1	7.8	*	*	*	*	*	**10**	10.7	**75.5**	*	*
	Nickel	100	*	*	*	*	*	*	*	*	38	*	DRY	*	*	*	**130**	*	*	*	*	14	*	*	*	*	*	*	*	**50**	*	*	*	*
	Selenium	50	*	*	*	*	*	*	*	*	*	*	DRY	*	*	*	*	*	*	*	*	*	5.6	*	*	*	*	*	*	**10**	*	*	*	*
	Thallium	NL	*	*	*	*	*	*	*	*	*	*	DRY	*	*	*	1.4	*	*	*	*	*	*	*	*	*	*	*	*	**5**	*	*	*	*
	Vanadium	NL	50	*	*	*	*	*	*	*	*	*	DRY	*	*	*	52	*	*	*	*	22	*	*	*	*	*	*	*	**20**	*	*	*	*
	Zinc	1050	170	34	19	16	45	15	166	*	57	*	DRY	32	*	*	140	*	31	*	11	32	*	*	*	*	*	*	*	**10**	*	70	*	*

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	MW-4A	NC Standard	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Acetone	700	*	10.6	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	Benzene	1	**5.5**	**3.3**	**5.5**	**3.6**	**4.8**	**2.7**	**3.8**	*	*	**6.4**	**4.2**	**4.7**	**3.4**	**3.6**	**3.9**	1	**3.1**	**4.1**	**2.8**	**3.4**
	2-Butanone	4200	*	*	*	*	*	*	*	*	*	*	*	*	*	*	70.6	100	*	*	*	*
	Carbon Disulfide	700	15.3	4.9	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	Chlorobenzene	50	*	*	*	1.4	1.8	1.4	1.9	*	*	6	*	*	7.2	5.8	*	3	11.6	5.0	24.6	5.7
	Chloroethane	2800	9	6.9	28	9.4	12	2.9	4.7	14	*	*	*	*	5.8	*	*	10	*	*	*	5.1
	1,4-Dichlorobenzene	1.4	2.8	*	3.4	1.8	2.4	1.8	2.5	*	*	*	*	*	*	*	*	1	**3.4**	**4.1**	**4.0**	**3.6**
	Ethylbenzene	550	12.1	7.5	11	7.8	7.6	4.1	6.6	12	9.8	12	8.1	7	7.3	5.9	*	1	4.6	7.3	5.2	4.8
	Toluene	1000	5.4	2.2	2.4	1.3	*	*	*	18	6.8	12	10.8	*	9.9	*	*	1	2.7	1.0	8.2	*
	Vinyl Chloride	0.015	**24.3**	**8.8**	**16**	**14**	**12**	**6.3**	**10**	**15**	**8.2**	**21**	**11.9**	**11.6**	**11.7**	**11.0**	**15.1**	1.0	**13.5**	**13.4**	**10.9**	**8.1**
	Xylenes total	530	*	7.8	11	*	4.2	*	3.7	21.9	5.4	5.1	5.7	*	*	*	*	3	*	1.7	4.2	*
Metals	Antimony	NL	*	*	*	4	*	*	*	*	*	*	*	*	*	*	*	6	*	*	*	*
	Arsenic	50	*	*	*	*	*	*	*	*	*	6.1	*	*	*	*	*	10	*	*	*	*
	Barium	2000	251	253	250	230	260	250	220	280	230	290	*	*	*	*	*	100	271	257	269	267
	Cadmium	1.75	*	1	*	*	*	*	*	*	*	1.2	*	*	*	*	*	1	*	*	*	*
	Chromium	50	*	5	12	*	*	*	*	*	2.6	*	*	*		*	*	10	*	*	*	*
	Cobalt	NL	38	38	39	33	33	32	27	31	23	23	18.1	16.8	14.0	13.8	13.6	10	15.1	13.4	11.2	12.5
	Lead	15	*	*	*	7.7	*	*	*	*	*	5	*	*	*	*	*	10	*	*	*	*
	Nickel	100	*	*	45	*	*	*	*	5	*	*	*	*	*	*	*	50	*	*	*	*
	Selenium	50	21	15	*	12	14	*	24	12	14	*	*	*	*	*	*	10	*	*	*	*
	Silver	17.5	*	*	*	*	3.5	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Zinc	1050	*	*	15	22	26	14	26	*	14	*	*	*	*	*	*	10	*	37.8	*	*

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	MW-5	NC Standard	May-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Acetone	700	*	dry	*	*	**710**	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**100**	*	*	*	*
	Benzene	1	*	dry	*	*	**5.4**	*	*	*	*	**1.2**	*	*	*	*	*	*	1.0	*	*	*	**1**	**1.2**	*	*	*
	Carbon Disulfide	700	*	dry	*	53	54	23.7	7.2	*	*	*	*	*	*	*	*	*	*	*	*	*	**100**	*	*	*	*
	1,2-Dichlorobenzene	24	6	dry	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**5**	*	*	*	*
	1,4-Dichlorobenzene	1.4	*	dry	2.3	*	*	*	*	1.5	*	1.1	*	*	*	*	*	*	*	*	*	*	**1**	**2.5**	*	*	*
	cis-1,2-Dichloroethene	70	*	dry	**388**	**430**	*	**188**	**199**	**84**	**70**	**170**	46	77	**230**	**200**	**130**	**112**	**114**	**103**	68.9	61.4	**5**	**78.8**	32.2	47	32
	trans-1,2-Dichloroethene	100	*	dry	*	*	*	*	4.1	2.2	*	1.3	*	*	*	*	*	*	*	*	*	*	**5**	*	*	*	*
	Ethylbenzene	550	*	dry	*	*	12.5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**1**	*	*	*	*
	Trichloroethene (TCE)	2.8	*	dry	*	*	*	*	*	1.6	*	1	*	*	*	*	*	*	*	*	*	*	**1**	*	*	*	*
	Toluene	1000	*	dry	*	*	16	*	*	*	*	*	5.9	*	*	*	*	*	*	*	*	*	**1**	*	*	*	*
	Vinyl Chloride	0.015	**352**	dry	**180**	**323**	*	**117**	**93.1**	**44**	**4.8**	**76**	**4.2**	**42**	**130**	**110**	**80**	**109**	**104**	**108**	**75.2**	**77.2**	**1**	**163**	**35.3**	**61.3**	**48.7**
Metals	Barium	2000	47	dry	54	88	34	52	41	110	46	46	51	44	*	32	34	*	*	*	*	*	**100**	*	*	*	*
	Cadmium	1.75	2	dry	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**1**	*	*	*	*
	Chromium	50	*	dry	*	11	*	*	*	15	*	*	*	*	*	*	*	*	*	*	*	*	**10**	*	*	*	*
	Cobalt	NL	43	dry	*	*	*	*	*	12	*	*	*	*	*	*	*	*	*	*	*	*	**10**	*	*	*	*
	Copper	1000	*	dry	*	*	*	*	*	*	*	*	*	*	5.1	2.6	*	*	*	*	*	*	**10**	*	*	*	*
	Lead	15	4	dry	*	12	*	3	*	14	*	*	*	*	*	*	*	*	*	*	*	*	**10**	*	*	*	*
	Nickel	100	*	dry	*	*	*	*	*	17	*	*	*	*	*	*	*	*	*	*	*	*	**50**	*	*	*	*
	Selenium	50	*	dry	*	*	7	*	*	*	*	*	*	*	5.8	6.3	*	*	*	*	*	*	**10**	*	*	*	*
	Vanadium	NL	*	dry	*	*	*	*	*	14	*	*	*	*	*	*	*	*	*	*	*	*	**20**	*	*	*	*
	Zinc	1050	*	dry	51	95	62	26	*	84	40	20	*	30	12	30	59	561	*	458	189	493	**10**	114	72	26.7	*

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	MW-5A	NC Standard	May-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	1,4-Dichlorobenzene	1.4	*	*	*	*	*	*	*	1.1	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	cis-1,2-Dichloroethene	70	*	*	6.2	64	7.1	19.8	7.4	27	9.6	2.1	17	11	36	*	*	*	*	*	13.4	5	*	10	8.2	1.7
	trans 1,2-Dichloroethene	100	154	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5	*	*	*	*
	Vinyl Chloride	0.015	**32**	**12**	*	**56**	**11.3**	**12.3**	*	**14**	*	*	**9.6**	**2**	**16**	*	*	*	*	**1.5**	**14.8**	1	**3.7**	**11**	**1.5**	*
Metals	Barium	2000	334	*	32	20	17	50	24	100	20	28	24	49	230	10	*	*	*	*	*	**100**	*	*	*	*
	Beryllium	NL	*	*	*	*	*	*	*	*	*	*	*	*	5	*	*	*	*	*	*	1	*	*	*	*
	Cadmium	1.75	**6**	**5**	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	Chromium	50	*	*	*	*	*	*	*	19	*	2.2	*	*	38	16	*	*	*	*	*	10	*	*	*	*
	Cobalt	NL	19	*	*	*	*	*	*	15	*	*	*	*	45	*	*	*	*	*	*	10	*	*	*	*
	Copper	1000	*	*	*	*	*	*	*	*	*	*	*	*	57	*	*	*	*	*	*	10	*	*	*	*
	Lead	15	11	*	*	*	4	6	*	11	*	*	*	5.2	**45**	*	*	*	*	*	*	10	*	*	*	*
	Nickel	100	*	*	*	*	*	*	*	19	*	*	*	*	37	5	*	*	*	*	*	50	*	*	*	*
	Selenium	50	*	*	*	*	*	*	*	*	*	*	*	*	6	*	*	*	*	*	*	10	*	*	*	*
	Vanadium	NL	*	*	*	*	*	*	*	17	*	*	*	*	44	*	*	*	*	*	*	20	*	*	*	*
	Zinc	1050	*	*	49	*	50	*	*	37	18	21	*	27	94	*	*	*	*	*	*	10	*	43.1	*	11.6

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	MW-5B	NC Standard	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Acetone	700	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	Benzene	1	*	1	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	Carbon Disulfide	700	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	1,4-Dichlorobenzene	1.4	1.8	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	1,1-Dichloroethane	70	1.8	*	*	*	*	*	*	*	*	*	*	*	*	5	*	*	*	*
	cis-1,2-Dichloroethene	70	**100**	**150**	**79**	**52**	**55**	**110**	68	**120**	**70.2**	49	*	42.6	50.6	5	40.9	34.5	33.5	27.4
	trans-1,2-Dichloroethene	100	1.7	*	*	*	*	*	*	*	*	*	*	*	*	5	*	*	*	*
	Tetrachloroethene (PCE)	0.7	**1.8**	*	*	*	*	*	*	*	**1.3**	*	*	*	*	1	*	*	*	*
	Trichloroethene	2.8	1.3	*	*	*	*	*	*	*	*	*	*	*	1.0	1	*	*	*	*
	Vinyl Chloride	0.015	**8**	**33**	**3.4**	**3.3**	*	**8.4**	**7.6**	**13**	**5.7**	**4.2**	**4.8**	**4.1**	**4.6**	1	**4.9**	**5.0**	*	**4.2**
Metals	Antimony	NL	*	*	*	*	*	*	6.9	*	*	*	*	*	*	6	*	*	*	*
	Arsenic	50	*	*	*	*	*	46	16	12	**57.3**	24.1	22.3	22.2	26.9	10	20.9	20.1	23.4	28.9
	Barium	2000	51	91	50	47	60	56	*	18	*	*	*	*	*	100	*	*	*	*
	Beryllium	NL	*	*	*	*	*	*	*	*	4.7	3.2	2.5	*	*	1	*	*	*	*
	Cadmium	5	*	3	*	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Chromium	50	3.1	3.1	*	*	*	*	*	*	21.9	*	*	*	*	10	*	*	*	*
	Copper	1000	*	*	*	*	*	14	*	*	11.2	*	*	*	*	10	*	*	*	*
	Lead	15	*	5	*	*	*	9.1	*	*	**155**	**19.8**	*	*	*	10	*	*	10.1	**17.0**
	Nickel	100	*	*	*	*	*	12	5.5	*	57.2	*	*	*	*	50	*	*	*	*
	Selenium	50	*	5.5	*	*	*	9.8	*	*	*	*	*	*	*	10	*	*	*	*
	Zinc	2100	*	23	25	*	11	58	19	*	194	59	*	*	*	10	24	19.6	17.1	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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	MW-5C	NC Standard	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Apr-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Benzene	1	*	**1.5**	*	**1.2**	**2.8**	**1.7**	*	*	*	*	**1.4**	**1.1**	*	**1.9**	**1**	**1.6**	**1.5**	**1.2**	**1.4**
	Carbon Disulfide	700	5.8	*	*	*	*	*	*	*	*	*	*	*	*	*	**100**	*	*	*	
	Chloroethane	2800	*	*	2	*	*	*	*	*	*	*	*	*	*	*	**10**	*	*	*	*
	1,4-Dichlorobenzene	1.4	*	1.7	*	*	*	*	*	*	*	*	*	*	*	*	**1**	*	*	*	*
	1,1-Dichloroethane	70	*	*	1.4	*	*	*	*	*	*	*	*	*	*	*	**5**	*	*	*	*
	cis-1,2-Dichloroethene	70	**209**	**160**	**100**	**120**	57	**89**	63	**100**	67	45	44.1	*	33.4	56.1	**5**	36	34.7	28.8	13.3
	trans-1,2-Dichloroethene	100	3.4	2.2	*	*	*	*	*	*	*	*	*	*	*	*	**5**	*	*	*	*
	Tetrachloroethene (PCE)	0.7	*	*	**1.4**	*	*	*	*	*	*	*	*	*	*	*	**1**	*	*	*	*
	Toluene	0.015	*	1	*	*	*	*	*	*	*	*	*	*	*	*	**1**	*	*	*	*
	Vinyl Chloride	0.02	**46.2**	**51**	**3.9**	**29**	**17**	**22**	**27**	**43**	**30**	**31.1**	**28.6**	**28.6**	**27.2**	**47.6**	**1**	**50.6**	**39.3**	**32.5**	**48.4**
Metals	Arsenic	50	7	*	*	*	*	*	14	*	7.6	*	*	*	*	*	**10**	*	*	*	*
	Barium	2000	86	86	54	60	33	53	98	56	77	*	*	*	*	*	**100**	*	*	*	*
	Cadmium	1.75	3	*	*	*	*	*	*	*	1.2	*	*	*	*	*	**1**	*	*	*	*
	Chromium	50	21	40	2.4	*	*	*	34	4.2	4.8	*	*	*	*	*	**10**	*	*	*	*
	Cobalt	NL	*	*	*	*	*	*	6.8	*	*	*	*	*	*	*	**10**	*	*	*	*
	Copper	1000	47	49	*	*	*	*	89	26	11	*	*	*	*	*	**10**	*	*	*	*
	Lead	15	**15**	14	*	*	*	*	**29**	6.4	8.7	*	*	*	*	*	**10**	*	*	*	*
	Nickel	100	20	55	*	*	*	*	29	14	8.1	*	*	*	*	*	**50**	*	*	*	*
	Selenium	50	*	*	*	*	*	*	11	*	*	*	*	*	*	*	**10**	*	*	*	*
	Zinc	1050	37	33	21	33	*	17	62	22	16	*	*	*	*	*	**10**	14.4	13.2	15.9	12.4

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	MW-6	NC Standard	Oct-93	May-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Carbon Disulfide	700	N/A	*	*	*	*	2.6	6.8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
Metals	Antimony	NL	N/A	*	*	22	*	*	*	*	*	2	*	*	*	*	*	*	*	*	*	*	*	6	*	*	*	*
	Barium	2000	N/A	*	*	**2170**	83	58	138	138	20	360	80	20	20	130	29	81	*	*	*	*	*	100	*	*	*	*
	Beryllium	NL	N/A	*	*	9	9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	Cadmium	1.75	N/A	1	2	*	*	*	*	*	*	4.2	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	Chromium	50	N/A	*	*	**315**	10	*	18	*	*	**50**	8.3	*	*	16	3.8	9.9	*	*	*	*	*	10	*	*	*	*
	Cobalt	NL	N/A	*	*	251	*	*	39	*	*	160	44	*	*	150	34	59	*	*	*	*	*	10	17.8	*	*	*
	Copper	1000	N/A	*	*	325	*	*	18	*	*	35	*	*	*	39	3.1	15	*	*	*	*	*	10	*	*	*	*
	Lead	15	N/A	4	5	7	*	*	*	*	*	8.9	*	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Nickel	100	N/A	*	*	**187**	*	*	*	*	*	22	*	*	*	21	*	12	*	*	*	*	*	50	*	*	*	*
	Vanadium	NL	N/A	*	*	752	25	*	40	*	*	110	18	*	*	38	*	20	*	*	*	*	*	20	*	*	*	*
	Zinc	1050	N/A	*	*	664	32	76	70	*	*	140	49	*	18	52	40	27	*	*	160	*	*	10	26.7	*	*	*

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	MW-6A	NC Standard	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
Metals	Arsenic	50	*	*	*	*	*	*	*	*	*	*	*	5.7	*	6.4	*	*	*	*	*	**10**	*	*	*	*
	Barium	2000	286	601	440	239	296	293	130	210	99	110	160	970	190	440	997	*	*	*	*	**100**	358	*	*	*
	Beryllium	NL	*	7	8	*	*	*	*	2	*	*	*	19	*	*	9.3	*	*	*	*	**1**	2.1	*	*	*
	Cadmium	1.75	1	*	*	*	*	1	*	2.1	*	*	*	*	*	1.9	*	*	*	*	*	**1**	*	*	*	*
	Chromium	50	*	**109**	**76**	18	46	45	27	36	16	18	27	**260**	*	**82**	**174**	*	*	*	*	**10**	*	*	*	*
	Cobalt	NL	*	61	42	*	26	24	11	19	*	*	14	79	7.8	30	70.8	*	*	*	*	**10**	13.6	*	*	*
	Copper	1000	*	133	85	24	58	55	21	36	21	20	35	370	10	120	*	*	*	*	*	**10**	19.9	*	*	*
	Lead	15	7	**30**	**23**	10	**19**	**17**	7.4	13	*	5.6	7.7	**79**	5.8	**36**	**56.9**	*	*	*	*	**10**	10.3	*	*	*
	Nickel	100	24	47	29	*	*	13	17	*	*	*	*	**100**	*	35	58.5	*	*	*	*	**50**	*	*	*	*
	Selenium	50	*	*	*	*	*	*	*	7.6	5	*	*	12	*	*	*	*	*	*	*	**10**	*	*	*	*
	Vanadium	NL	*	362	268	64	145	147	62	100	43	57	77	790	14	260	516	*	*	*	*	**20**	*	*	*	*
	Zinc	1050	*	156	104	50	68	63	28	46	37	24	34	250	*	91	179	*	*	*	*	**10**	75.8	29.8	*	*

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	MW-6C	NC Standard	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Acetone	700	*	15.4	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	Benzene	1	*	**2.6**	**2.1**	*	*	*	**1.4**	*	*	*	*	*	*	*	*	1	*	*	*	*
	2-Butanone (MEK)	4200	*	*	*	*	*	*	*	17	*	*	*	*	*	*	*	100	*	*	*	*
	Carbon Disulfide	700	*	10.2	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	Chloroform	70	2.7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5	*	*	*	*
Metals	Antimony	NL	*	*	*	2	*	*	*	*	*	*	*	*	*	*	*	6	*	*	*	*
	Arsenic	10	*	*	*	*	*	*	*	*	*	8.1	*	*	*	*	*	10	*	*	*	*
	Barium	2000	114	67	38	29	20	16	14	50	8.7	17	*	*	*	*	*	100	*	*	*	*
	Chromium	50	44	25	14	15	8	11	*	12	7.5	4.3	*	*	*	*	*	10	*	*	*	*
	Cobalt	NL	*	*	*	*	*	*	*	5.2	*	*	*	*	*	*	*	10	*	*	*	*
	Copper	1000	29	*	*	*	*	*	*	31	7.3	10	*	*	*	*	*	10	*	*	*	*
	Lead	15	*	*	*	5	*	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Nickel	100	*	*	11	*	*	*	*	24	*	*	*	*	*	*	*	50	*	*	*	*
	Selenium	50	*	*	*	*	*	17	*	*	5.6	*	*	*	*	*	*	10	*	*	*	*
	Vanadium	NL	145	21	33	37	37	45	39	54	26	43	*	*	*	*	*	20	*	*	*	*
	Zinc	1050	68	21	19	37	31	16	25	10	*	*	*	*	*	*	*	10	16.6	12.4	*	*

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	MW-7	NC Standard	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Acetone	700	513	540	170	520	*	680	**3100**	**1100**	*	281	194	*	189	*	**100**	240	*	*	*
	Benzene	1	**3.6**	*	**2.9**	**7.2**	*	**6.7**	**6.2**	**5.4**	*	**4.2**	**4.7**	**5.7**	**5.0**	**5.1**	**1**	**6.5**	**5.2**	*	**4.7**
	2-Butanone (MEK)	170	**1180**	**940**	**480**	*	*	**1600**	**6800**	**1600**	*	**1200**	**494**	**817**	*	*	**100**	*	*	*	*
	Carbon Disulfide	700	6.2	*	*	*	*	*	*	*	*	*	*	*	*	*	**100**	*	*	*	*
	Chlorobenzene	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**3**	*	*	*	1.3
	Chloroethane	2800	*	8.6	10	*	*	12	26	17	*	*	*	7.3	*	*	**10**	*	*	*	*
	Chloromethane	2.6	*	*	1.4	5.8	*	*	*	*	*	*	*	*	*	*	**1**	*	2.2	*	*
	1,4-Dichlorobenzene	1.4	13.5	12	12	10	*	17	*	12	*	12.9	**13.3**	**13.3**	**12.0**	**10.0**	**1**	**9.9**	**11.2**	*	**9.2**
	1,1-Dichloroethane	700	13.4	*	1.2	*	*	*	5.2	*	*	*	*	*	*	*	**5**	*	*	*	1.3
	cis-1,2-Dichloroethene	70	**2240**	**1500**	**1300**	**3700**	**3100**	**2400**	**8400**	**3200**	**2200**	**1650**	**472**	**1790**	**592**	*	**5**	*	*	**818**	44.7
	trans-1,2-Dichloroethene	100	42	16	4	*	*	6.2	*	6.4	*	*	*	*	*	*	**5**	*	*	*	*
	Ethylbenzene	550	**42.5**	**57**	**31**	32	*	**40**	**38**	**38**	*	25.2	28.2	*	27	33.7	**1**	30.5	35	33.1	25.1
	2-Hexanone	NL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**50**	*	*	*	*
	4-Methyl-2-pentanone	NL	41.4	*	*	*	*	*	150	89	*	66.5	*	61.4	*	*	**100**	*	*	*	*
	Methylene Chloride	4.6	**18.6**	**63**	*	**42**	*	*	**36**	**18**	*	*	*	**9.6**	*	*	**1**	3.5	*	*	*
	Tetrachloroethene (PCE)	0.7	**2.2**	*	*	*	*	*	*	*	*	*	*	**1.3**	*	*	**1**	*	*	*	*
	Toluene	1000	93.6	110	70	150	*	140	170	130	*	86.2	89.7	130	152	252	**1**	141	150	101	110
	Trichloroethene (TCE)	2.8	2.6	*	*	*	*	*	*	*	*	*	*	1.3	*	*	**1**	*	*	*	*
	Vinyl Chloride	0.015	**72.8**	**54**	**90**	**120**	**120**	**510**	**190**	**300**	**980**	**1140**	**831**	**1520**	**1970**	**212**	**1**	**1950**	*	**806**	**932**
	Xylenes total	530	48.2	85	38	64	*	77	91	72	*	57.6	52.3	23.4	79.6	69.8	**3**	74.2	69.1	73.2	64.3
Metals	Antimony	NL	*	*	2	*	*	*	*	*	*	*	*	*	*	*	**6**	*	*	*	*
	Arsenic	50	*	5	*	*	*	*	7.8	*	6.1	*	*	*	*	*	**10**	*	*	*	*
	Barium	2000	295	660	240	450	260	420	580	7.4	170	*	*	*	*	1340	**100**	246	205	273	183
	Beryllium	NL	*	8	8	*	*	*	1.1	*	*	*	*	*	*	11	**1**	*	1.1	*	*
	Cadmium	1.75	3	*	3.2	3.5	*	*	*	*	2.1	*	*	*	*	*	**1**	*	*	*	*
	Chromium	50	11	**52**	2.2	*	*	*	2	*	*	*	*	*	*	**69.4**	**10**	*	*	*	*
	Cobalt	NL	447	360	220	880	350	670	950	*	180	295	252	437	281	200	**10**	331	58.6	263	89.3
	Copper	1000	10	65	*	16	*	*	4.6	*	*	*	*	*	*	*	**10**	*	*	*	*
	Lead	15	**23**	**180**	12	10	9.3	12	**21**	*	7.7	*	*	*	*	**51.1**	**10**	*	12.5	*	**17.6**
	Nickel	100	14	**100**	*	*	30	*	28	*	*	*	*	*	*	*	**50**	*	*	*	*
	Selenium	50	18	5	18	35	21	36	23	5.2	*	*	*	*	*	*	**10**	*	*	*	*
	Silver	18	*	*	*	6.4	*	*	*	*	*	*	*	*	*	*	**10**	*	*	*	*
	Thallium	NL	*	4	*	2.1	*	*	*	*	*	*	*	*	*	*	**5**	*	*	*	*
	Vanadium	NL	*	31	*	*	*	*	*	*	*	*	*	*	*	40.1	**20**	*	*	*	*
	Zinc	1050	109	440	73	180	43	34	65	*	25	*	*	*	*	950	**10**	35.8	135	11.7	92.8

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	MW-8	NC Standard	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Acetone	700	*	34.4	*	*	*			*	*	*	*	*	*	*	*	100	*	*	*	*
	2-Butanone (MEK)	4200	*	52.3	*	*	*			*	*	*	*	*	*	*	*	100	*	*	*	*
Metals	Barium	2000	913	242	1400	860	510			60	110	260	*	*	*	*	*	100	506	178	123	436
	Beryllium	NL	*	*	13	7	3.3			*	*	*	*	*	*	*	*	1	1.6	*	*	1.8
	Cadmium	1.75	*	*	*	3.7	*			*	*	*	*	*	*	*	*	1	*	*	*	*
	Chromium	50	12	10	**73**	28	12			4	*	6	*	*	*	*	*	10	*	*	*	*
	Cobalt	NL	58	*	78	57	32			*	5	14	20.5	*	*	*	19.5	10	22.5	*	*	21.2
	Copper	1000	55	22	200	93	60			16	5.7	20	*	*	*	*	*	10	11.1	*	*	16.1
	Lead	15	**38**	13	13	**54**	**20**			*	7.1	13	**15.4**	*	*	*	**16**	10	**18.2**	*	*	**19.8**
	Nickel	100	21	*	**100**	23	*			6.4	*	10	*	*	*	*	*	50	*	*	*	*
	Selenium	50	*	*	5.3	*	8.3			*	*	*	*	*	*	*	*	10	*	*	*	*
	Vanadium	NL	33	25	130	85	36			13	5.7	20	*	*	*	*	*	20	*	*	*	*
	Zinc	1050	52	54	170	98	48			17	*	24	*	*	*	*	*	10	27.6	12.4	*	20.0

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	Spring A	NC Standard	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Carbon Disulfide	700	6.3	*	dry	*	*	*	*	*	*	*	*	*	NS	*	100	NS	NS	*	NS
	cis-1,2-Dichloroethene	70	**175**	**94.6**	dry	48	42	**350**	**650**	**160**	16.9	*	14.1	24.4	NS	17.4	5	NS	NS	46.6	NS
	trans-1,2-Dichloroethene	100	*	2.5	dry	*	*	*	*	*	*	*	*	*	NS	*	5	NS	NS	*	NS
	Ethylbenzene	550	*	*	dry	*	*	8.5	*	*	*	*	*	*	NS	*	1	NS	NS	*	NS
	Vinyl Chloride	0.015	**8.2**	**13.6**	dry	**8.5**	**12**	**34**	**36**	*	**11.9**	*	**9.3**	**20.5**	NS	**11.9**	1	NS	NS	**10.4**	NS
Metals	Barium	2000	16	14	dry	21	22	17	21	16	*	*	*	*	NS	*	100	NS	NS	*	NS
	Cobalt	NL	*	*	dry	*	*	6.4	12	5.3	*	*	*	*	NS	*	10	NS	NS	*	NS
	Selenium	50	*	*	dry	*	7.4	*	*	*	*	*	*	*	NS	*	10	NS	NS	*	NS
	Zinc	1050	31	23	dry	18	17	*	*	*	*	*	*	*	NS	11.9	10	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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	Spring B	NC Standard	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Chloromethane	2.6	*													1	*	*	*	*
	Carbon Disulfide	700	2.1	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	Methylene choride	4.6	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	1.1	*	*
Metals	Barium	2000	25	18	160	69	33	20	18	20	*	*	*	*	*	100	*	*	*	*
	Beryllium	NL	*	*	4	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	Chromium	50	*	*	29	6.4	2.4	3.6	*	*	*	*	*	*	*	10	*	*	*	*
	Cobalt	NL	*	*	23	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Copper	1000	*	*	14	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Lead	15	*	*	14	6.2	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Nickel	100	*	*	26	*	*	*	*	*	*	*	*	*	*	50	*	*	*	*
	Vanadium	NL	*	*	32	*	*	*	*	*	*	*	*	*	*	25	*	*	*	*
	Zinc	1050	*	*	62	23	14	*	*	*	*	*	*	*	*	10	*	11.1	*	*

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	Chastain Spring	NC Standard	Oct-93	Jun-94	Dec-94	Mar-95	Nov-95	Apr-96	Oct-96	May-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Carbon Disulfide	700	*	*	*	*	*	*	*	*	*	*	dry	3.6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	100	*	*	*	NS
	trans-1,2-Dichloroethene	100	*	*	*	*	*	*	*	*	*	*	dry	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	5	*	*	*	NS
	Toluene	1000	*	*	*	*	*	*	*	*	*	*	dry	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	1	*	*	*	NS
	2-Butanone	4200	*	*	*	*	*	*	*	*	*	*	dry	*	*	*	*	*	*	*	*	*	11	*	*	*	*	*	NS	100	*	*	*	NS
Metals	Barium	2000	*	*	*	*	*	*	123	*	*	*	dry	*	*	*	6	4.9	3.9	32	6	8.4	27	16	*	*	*	*	NS	100	*	*	*	NS
	Cadmium	1.75	1	*	*	*	*	*	*	**5**	1	*	dry	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	1	*	*	*	NS
	Chromium	50	*	*	*	*	*	*	*	*	*	*	dry	*	*	*	*	*	*	*	*	2.5	2.8	*	*	*	*	*	NS	10	*	*	*	NS
	Copper	1000	*	*	*	*	*	*	*	*	*	*	dry	*	*	*	*	*	*	*	*	*	56	3.6	*	*	*	*	NS	10	*	*	*	NS
	Zinc	1050	*	*	*	*	*	*	*	*	*	*	dry	29	*	*	*	*	12	11	*	*	25	11	*	*	*	50.6	NS	10	*	22.4	*	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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	Chastain Well	NC Standard	Oct-93	Jun-94	Dec-94	Mar-95	Nov-95	Apr-96	Oct-96	May-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
Metals	Barium	2000	*	*	172	*	*	*	*	NS	NS	*	*	*	*	*	160	7	6.5	6.6	6.7	7	5.63	6.7	*	*	*	*	*	100	*	*	*	*
	Copper	1000	*	*	170	*	*	*	*	NS	NS	98	116	82	81	113	390	170	170	680	900	62	89	89	*	286	*	285	293	10	22.0	17.8	316	400
	Lead	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10	**23.3**	*	*	*
	Zinc	1050	*	*	*	*	*	*	*	NS	NS	36	*	*	*	57	26	130	40	20	17	*	*	*	*	*	*	*	*	10	21.4	18.3	*	*

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

	McCall Well	NC Standard	Oct-93	Jun-94	Dec-94	Mar-95	Nov-95	Apr-96	Oct-96	May-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
Metals	Barium	2000	*	*	*	*	*	*	49	*	*	*	*	*	*	*	7	7	7.7	7.1	8.7	7.4	10	7.5	*	*	*	*	*	100	*	*	*	*
	Cadmium	1.75	*	*	*	*	*	*	*	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	Copper	1000	*	*	**2020**	*	*	*	315	*	52	*	*	47	20	11	18	16	*	*	15	76	*	12	*	*	*	*	*	10	27.9	26.5	62.6	17.6
	Lead	15	*	*	*	*	*	*	*	3	6	*	*	*	*	*	*	*	*	*	*	7.8	*	*	*	*	*	*	*	10	*	*	*	*
	Zinc	1050	*	*	*	*	*	*	443	*	*	*	*	57	38	26	18	14	14	12	12	20	12	13	*	*	123	*	*	10	37.7	84.0	97.3	54.5

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Old Highlands Landfill
Highlands, North Carolina

Hicks Well		NC Standard	May-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Apr-08	Oct-08
VOCs	Acetone	700	*	47	*	*	*	*	*	*	*	*	*	*	NS	NS	NS	NS	NS	NS	NS	NS	**100**	NS	NS	NS
Metals	Barium	2000	*	*	11	11	14	*	*	15	13	14	17	16	NS	NS	NS	NS	NS	NS	NS	NS	**100**	NS	NS	NS
	Lead	15	*	*	*	*	*	*	*	*	*	13	*	*	NS	NS	NS	NS	NS	NS	NS	NS	**10**	NS	NS	NS
	Nickel	100	*	34	47	*	*	*	*	*	*	*	*	*	NS	NS	NS	NS	NS	NS	NS	NS	**50**	NS	NS	NS
	Zinc	1050	*	29	28	*	22	*	*	61	*	*	*	13	NS	NS	NS	NS	NS	NS	NS	NS	**10**	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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Highlands C and D Landfill
Highlands, North Carolina

	SW-1	NC Standard	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Apr-08	Oct-08
Metals	Barium	2000	16	13	38	16	17	19	14	100	8	11	*	*	*	*	*	**100**	*	*	NS
	Chromium	50	*	*	13	*	*	*	*	7.6	*	*	*	*	*	*	*	**10**	*	*	NS
	Cobalt	N/A	*	*	13	*	12	*	*	*	*	*	*	*	*	*	*	**10**	*	*	NS
	Copper	1000	*	*	*	*	*	*	*	6.6	*	*	*	*	*	*	*	**10**	*	*	NS
	Lead	15	*	*	*	*	*	*	*	8.6	*	*	*	*	*	*	*	**10**	*	*	NS
	Nickel	100	*	*	27	*	*	*	*	5.5	*	*	*	*	*	*	*	**50**	*	*	NS
	Selenium	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**10**	*	*	NS
	Vanadium	NL	*	*	*	*	*	*	*	7.9	*	*	*	*	*	*	*	**20**	*	*	NS
	Zinc	1050	*	*	11	*	*	23	46	19	*	*	*	*	*	*	*	**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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Highlands C D Landfill
Highlands, North Carolina

	WSW-1	NC Standard	Mar-95	Nov-95	Apr-96	Oct-96	May-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	1,2-Dichloroethane	0.38	*	**5**	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**1**	*	*	*	*
Metals	Barium	2000	*	*	*	42	*	*	*	*	*	*	*	13	12	12	16	14	9.7	7.8	11	*	*	*	*	*	**100**	*	*	*	*
	Cadmium	5	*	*	*	*	2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**1**	*	*	*	*
	Copper	1000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3	20	280	*	*	*	*	*	**10**	*	*	*	*
	Lead	15	*	*	*	*	4	*	*	*	*	*	*	*	*	*	*	*	*	*	**19**	*	*	*	*	*	**10**	*	*	*	*
	Nickel	100	*	*	*	*	*	30	*	*	*	*	*	*	*	*	*	*	*	*	5.1	*	**207**	*	*	*	**50**	*	*	*	*
	Antimony	NL	*	*	*	*	*	152	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**6**	*	*	*	*
	Zinc	1050	*	*	*	87	*	*	*	*	*	*	*	10	16	*	*	*	*	11	180	*	*	*	*	*	**10**	15.5	22	17	*

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Highlands C and D Landfill
Highlands, North Carolina

	MW-A	NC Standard	Oct-93	Oct-94	Mar-95	Nov-95	Apr-96	Oct-96	May-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	Apr-03	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Carbon Disulfide	700	*	*	*	*	*	*	*	*	*	*	*	*	3.8	*	*	*	*	*	*	*	*	*	*	*	*	*	**100**	*	*	*	*
	cis-1,2-Dichloroethene	70	7.1	6.3	5.6	*	*	*	*	*	5.2	*	3.4	*	*	*	2.7	*	*	*	*	*	*	*	*	*	*	*	**5**	*	*	*	*
Metals	Barium	2000	230	*	*	*	*	122	*	*	12	13	14	14	15	17	15	17	17	22	15	7.7	13	*	*	*	*	*	**100**	*	*	*	*
	Cadmium	1.75	*	*	*	*	*	*	2	*	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**1**	*	*	*	*
	Chromium	50	46	*	*	*	*	*	*	*	*	6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**10**	*	*	*	*
	Copper	1000	190	*	*	*	*	*	*	*	*	*	*	*	*	*	61	*	*	*	*	*	*	*	*	*	*	*	**10**	*	*	*	*
	Lead	15	**24**	*	*	*	*	*	12	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**10**	*	*	*	*
	Thallium	NL	*	*	*	*	*	*	*	14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**5**	*	*	*	*
	Vanadium	NL	170	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	**20**	*	*	*	*
	Zinc	1050	*	11	12	*	20	40	*	*	36	*	*	*	*	*	120	50	*	14	*	*	*	*	*	*	*	*	**10**	19.7	22.7	12.2	*

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Historical Analytical Results
Highlands C and D Landfill
Highlands, North Carolina

	MW-B	NC Sandard	Oct-93	Oct-94	Mar-95	Nov-95	Apr-96	Oct-96	May-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	May-00	Oct-00	Apr-01	Oct-01	Apr-02	Oct-02	3-Apr	Oct-03	Apr-04	Dec-04	Apr-05	Oct-05	Apr-06	Oct-06	SWSL	Apr-07	Oct-07	Apr-08	Oct-08
VOCs	Carbon Disulfide	700	*	*	*	*	*	*	*	*	*	*	7.1	26.7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*
	Chloroethane	2800	*	*	*	*	*	*	*	*	*	*	*	*	*	2.4	*	*	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
Metals	Arsenic	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.6	*	*	*	*	*	10	*	*	*	*
	Barium	2000	340	*	*	*	*	172	*	*	20	23	20	20	19	26	18	20	17	22	13	15	18	*	*	*	*	*	100	*	*	*	*
	Cadmium	1.75	*	*	*	*	*	*	1	*	3	2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
	Chromium	50	**60**	*	*	*	*	*	*	*	*	11	*	*	*	2.2	*	*	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Cobalt	NL	*	*	*	*	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Copper	1000	*	*	*	*	*	11	*	*	*	12	*	*	*	*	*	*	*	*	2.7	2.1	*	*	*	*	*	*	10	*	*	*	*
	Lead	15	**48**	*	*	*	5	*	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
	Nickel	100	*	*	*	*	*	*	*	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	50	*	*	*	*
	Selenium	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11	*	*	5.2	*	*	*	*	*	*	10	*	*	*	*
	Vanadium	NL	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20	*	*	*	*
	Zinc	1050	130	*	16	*	21	46	*	*	23	*	67	*	*	20	*	19	28	*	11	*	*	*	*	*	*	*	10	69.8	43.2	11.1	*

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 NC 2L Standard
4. Bold indicates that constituent exceeds NC 2L Standard.
5. DRY - well was dry during sampling event.
6. All constituents measured in parts per billion (ppb).
7. Only compounds detected above laboratory PQL or SWSL are listed.

Appendix E

Statistical Analysis

MW-8	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Vanadium	Zinc
Oct-99	0.005	0.913	0.001	0.0005	0.012	0.058	0.100	0.038	0.025	0.010	0.020	0.052
May-00	0.005	0.250	0.001	0.0005	0.010	0.005	0.100	0.013	0.025	0.010	0.020	0.054
Oct-00	0.005	1.40	0.013	0.0005	0.073	0.078	0.200	0.013	0.100	0.010	0.130	0.170
Apr-01	0.005	0.860	0.007	0.0037	0.028	0.057	0.100	0.054	0.025	0.010	0.085	0.098
Oct-01	0.005	0.510	0.0033	0.0005	0.012	0.032	0.100	0.020	0.025	0.010	0.020	0.025
Apr-03	0.005	0.250	0.001	0.0005	0.005	0.005	0.100	0.005	0.025	0.010	0.020	0.025
Oct-03	0.005	0.250	0.001	0.0005	0.005	0.005	0.100	0.005	0.025	0.010	0.020	0.025
Apr-04	0.005	0.250	0.001	0.0005	0.005	0.014	0.100	0.013	0.025	0.010	0.020	0.025
Dec-04	0.005	0.250	0.001	0.0005	0.005	0.0205	0.100	0.0154	0.025	0.010	0.020	0.025
Apr-05	0.005	0.250	0.001	0.0005	0.005	0.005	0.100	0.005	0.025	0.010	0.020	0.025
Oct-05	0.005	0.250	0.001	0.0005	0.005	0.005	0.100	0.005	0.025	0.010	0.020	0.025
Apr-06	0.005	0.250	0.001	0.0005	0.005	0.005	0.100	0.005	0.025	0.010	0.020	0.025
Oct-06	0.005	0.250	0.001	0.0005	0.005	0.0195	0.100	0.016	0.025	0.010	0.020	0.025
Apr-07	0.005	0.506	0.0005	0.0005	0.005	0.0225	0.0111	0.0182	0.025	0.005	0.010	0.0276
Oct-07	0.005	0.178	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0124
Apr-08	0.005	0.123	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.005
Oct-08	0.005	0.436	0.0018	0.0005	0.005	0.0212	0.0161	0.0198	0.025	0.005	0.010	0.0200
PQL	0.010	0.500	0.002	0.001	0.010	0.010	0.200	0.010	0.050	0.020	0.040	0.050
SWSL	0.010	0.100	0.001	0.001	0.010	0.010	0.010	0.010	0.050	0.010	0.020	0.010
# Obs.	17	17	17	17	17	17	17	17	17	17	17	17
# NDs	17	9	13	16	12	8	14	7	16	17	15	10
% NDs	100%	53%	76%	94%	71%	47%	82%	41%	94%	100%	88%	59%
Method	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Adjustment	Nonparametric	Adjustment	Nonparametric	Nonparametric	Nonparametric	Nonparametric
Limit	**0.010**	**1.40**	**0.013**	**0.0037**	**0.073**	**0.078**	**0.200**	**0.063**	**0.100**	**0.010**	**0.130**	**0.170**
2L Std.	0.050	2.0	0.002	0.00175	0.050	-	1.0	0.015	0.100	0.050	-	1.05

* Results less than PQL/SWSL listed as half the PQL/SWSL

0.05		k	
n	10	14	15
16	1.72	1.83	1.86
17		1.82	
20	1.67	1.77	1.80

0.005		k	
n	10	14	15
16	2.55	2.66	2.69
17		2.63	
20	2.42	2.52	2.55

0.0025		k	
n	10	14	15
16	2.79	2.90	2.93
17		2.86	
20	2.64	2.74	2.77

# const.	alpha	ln(alpha)	K
1	0.05	-2.99573	1.77
10	0.005	-5.29832	2.52
20	0.0025	-5.99146	2.74
37	0.00135	-6.60765	**2.94**

K= 2.94

16 background measurements
14 compliance wells
37 constituents for which statistical comparisons are made:

1,1-Dichloroethane
1,2-Diclorobenzene
1,4-Dichlorobenzene
2-Butanone (MEK)
2-Hexanone
4-Methyl-2-pentanone
Acetone
Antimony
Arsenic
Barium
Benzene
Beryllium
Cadmium
Carbon Disulfide
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
Chromium
cis-1,2-Dichloroethene
Cobalt
Copper
Ethylbenzene
Lead
Methylene Chloride
Nickel
Selenium
Silver
Tetrachloroethene (PCE)
Thallium
Toluene
trans-1,2-Dicloroethene
Trichloroethene
Vanadium
Vinyl Chloride
Xylenes total
Zinc

Cobalt

0.005
0.005
0.005
0.005
0.005
0.005
0.005
0.005
0.014
0.0195
0.0205
0.0212
0.0225
0.032
0.057
0.058
0.078

Cohen's Adjustment - Normal Distribution

Mean (above detection)	0.036
S.D. (above detection)	0.023
h	0.4706
gamma	0.7671
lambda	0.9579
Corrected Mean	0.011
Corrected S.D.	0.034
K	2.94
Prediction Limit	0.111

Lead
0.005
0.005
0.005
0.005
0.005
0.005
0.005
0.013
0.013
0.013
0.0154
0.016
0.0182
0.0198
0.020
0.038
0.054

Cohen's Adjustment - Normal Distribution

Mean (above detection)	0.022
S.D. (above detection)	0.013
h	0.4118
gamma	1.2462
lambda	0.8723
Corrected Mean	0.012
Corrected S.D.	0.018
K	2.94
Prediction Limit	0.063