DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

REI Consultants, Inc./REI Consultants of North Carolina, PLLC

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

Name: Michael Hofe, PE Phone: (304) 255-2500

E-mail: mhofe@reiclabs.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Old Highlands Landfill (57-02) Highlands C&D Landfill (57-04)	1080 Rich Gap Road, Highlands, NC	57-02 57-04	.0500	April 12, 2016

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☒ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Michael Hofe, PE — Consultant for Facility — (304) 255-2500

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

6/14/2016

Signature — Date — Affix NC Licensed/ Professional Geologist Seal

PO Box 286, Beaver, WV 25813

Facility Representative Address

P-1018

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

Revised 6/2009

WATER QUALITY MONITORING REPORT

1st Semi-annual 2016 Event
Old Highlands Landfill, Permit No. 57-02
Highlands C&D Landfill, Permit No. 57-04
Macon County, North Carolina

Prepared for:

Macon County Solid Waste Department
109 Sierra Drive
Franklin, NC 28734

Prepared by:

REI Consultants, Inc.
P.O. Box 286
Beaver, WV 25813

June 14, 2016

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Old Highlands Landfill
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Old Highlands Landfill
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1.0 EXECUTIVE SUMMARY

REI Consultants, Inc. (REIC) has prepared the 1st Semi-Annual Water Quality Monitoring Report for 2016 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 a closed 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.

The 1st semi-annual 2016 monitoring event was performed on April 12, 2016. 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 three (3) surface water locations and four (4) water supply sources. All samples were analyzed for North Carolina Appendix I parameters. In addition, monitoring wells associated with the C&D Landfill were analyzed for tetrahydrofuran per the North Carolina Department of Environmental Quality (NCDEQ) memo dated June 25, 2010. Results of laboratory analysis and hydrologic evaluations are given below for each facility.

Old Highlands Landfill

Several metals and volatile organic compounds (VOCs) were detected above North Carolina Solid Waste Section Limits (SWSLs) in the monitoring wells. Parameters detected above North Carolina 15A NCAC 2L groundwater standards are given in the following table:

Parameter	Monitoring Well
Arsenic	MW-5B
Benzene	MW-1, MW-4A, MW-5C, MW-7
Chromium	MW-6A
Cobalt	MW-1, MW-7
1,4-Dichlorobenzene	MW-7
Lead	MW-5B
Vanadium	MW-6A
Vinyl Chloride	MW-1, MW-2, MW-4A, MW-5, MW-5B, MW-5C, MW-7

Statistical analysis indicates that the concentrations of chromium, cobalt, lead, and vanadium in the above indicated wells were below the statistical limits calculated from background data. The exceedances of groundwater standards are similar to those of previous monitoring events. However, these constituents have not been detected in nearby water supply sources (see below).

Samples were collected from two surface water locations, designated as Spring A and Spring B. No Appendix I parameters were detected above groundwater standards with the exception of vinyl chloride in the Spring A sample.

Three adjacent residential water supply sources were sampled, designated as Chastain Spring, 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 Chastain Well and McCall Well. The concentrations of copper and zinc in these samples were below the respective North Carolina groundwater standards.

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 under the landfill has been estimated at 80 feet/year.

Highlands C&D Landfill

Samples were collected from the two monitoring wells, a surface water location, and a water supply well located on the landfill property. No Appendix I parameters were detected above North Carolina groundwater standards with the exception of cobalt in well MW-B. However, the cobalt concentration was less than the statistical limit calculated from background data. Tetrahydrofuran was not detected in any of the samples.

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 under the landfill has been estimated at 60 feet/year.

2.0 INTRODUCTION

REI Consultants, Inc. (REIC) has prepared the 1st Semi-Annual Water Quality Monitoring Report for 2016 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 a closed 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 1 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, monitoring wells associated with the C&D Landfill are analyzed for tetrahydrofuran per the NCDEQ memo dated June 25, 2010.

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 semiannually for Appendix I parameters. A fourth residential water supply well, designated the Hicks Well, has not been sampled since October 2002, as the associated residence is no longer occupied.

For the 1st semi-annual 2016 monitoring event, field sampling was performed on April 12, 2016. Samples were collected from all of the above locations during the event.

3.0 GROUNDWATER FLOW RATE AND DIRECTION

Static water levels were measured from the top of casing (TOC) prior to purging in all wells during the sampling event. These water level measurements, in conjunction with surveyed TOC elevation data, were used to calculate static groundwater elevations in each well. Groundwater elevation data from the 1st semi-annual 2016 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 as Figure 1. A summary of monitoring well data, including static water levels measured during the 1st semi-annual 2016 event, is included in Table 1.

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 depict 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 Old Highlands Landfill has been estimated at 80 feet/year. The average groundwater flow rate in the vicinity of the C&D landfill is estimated at 60 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 polytetrafluoroethylene single check valve bailers. Field testing of pH, temperature, conductivity, and turbidity were measured to ensure adequate purging. Samples were collected in pre-cleaned and appropriately preserved containers, transported in iced coolers, and delivered to the laboratory in good condition. All wells were sampled during the 1st semi-annual 2016 sampling event. Several groundwater samples were noted as exhibiting high turbidity. A summary of field sampling information is included in Table 2. 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. For each facility, laboratory results are summarized as follows.

Old Highlands Landfill

Several metals and VOCs were detected above SWSLs in the monitoring wells. Parameters detected above North Carolina groundwater standards are given in the following table:

Parameter	Monitoring Well
Arsenic	MW-5B
Benzene	MW-1, MW-4A, MW-5C, MW-7
Chromium	MW-6A
Cobalt	MW-1, MW-7
1,4-Dichlorobenzene	MW-7
Lead	MW-5B
Vanadium	MW-6A
Vinyl Chloride	MW-1, MW-2, MW-4A, MW-5, MW-5B, MW-5C, MW-7

The exceedances of groundwater standards are similar to those of previous monitoring events. However, these constituents have not been detected in nearby water supply sources (see below).

Samples were collected from two surface water locations, designated as Spring A and Spring B. No Appendix I parameters were detected above groundwater standards with the exception of vinyl chloride in the Spring A sample.

Three adjacent residential water supply sources were sampled, designated as Chastain Spring, 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 Chastain Well and McCall Well. The concentrations of copper and zinc in these samples were below the respective North Carolina groundwater standards.

A summary of detections is included in Table 3. Laboratory reports and chain-of-custody records are included in Appendix C. Data have been reported to method detection limits (MDLs) as requested by NCDEQ. 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 the two monitoring wells, MW-A and MW-B, a surface water location, SW-1, and a water supply well, WSW-1, located on the landfill property. No Appendix I parameters were detected above North Carolina groundwater standards with the exception of cobalt in well MW-B. However, the cobalt concentration was less than the statistical limit calculated from background data. Tetrahydrofuran was not detected in any of the samples. A summary of detections is included in Table 3. Laboratory reports and chain-of-custody records are included in Appendix C. Historical results are given in Appendix D.

5.0 STATISTICAL ANALYSIS

The updated regulations at 15A NCAC 13B Section .1633 no longer require statistical analysis to be conducted as a routine screening tool. However, statistical analysis was performed in order to maintain background levels for the several naturally occurring metals that are detected in background and compliance wells at the Highlands landfills.

Monitoring constituents were evaluated in general accordance with the guidelines of "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance" (U.S. EPA Office of Resource Conservation and Recovery, March 2009). Downgradient well constituent concentrations were compared to upper prediction limits derived from historical data from background well MW-8. Prediction intervals were constructed as follows. For constituents where less than 50 percent of the data were above practical quantitation limits (PQLs)/SWSLs, a non-parametric prediction limit was constructed using the maximum historical background measurement. No parameters exhibited detection frequencies above PQLs/SWSLs at greater than 50 percent.

Statistical analysis of monitoring well analytical results for metals indicates that the chromium, cobalt, lead, and vanadium concentrations detected above groundwater standards were below background limits. A summary of the statistical analysis is given in Appendix E.

6.0 CONCLUSIONS

- The 1st semi-annual 2016 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 Old Highlands Landfill has been estimated at 80 feet/year. The average groundwater flow rate in the vicinity of the C & D Landfill has been estimated at 60 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 well MW-7; and vinyl chloride in wells MW-1, MW-2, MW-4A, MW-5, MW-5B, MW-5C, and MW-7.

- The following metals were detected above North Carolina groundwater standards in compliance wells associated with the Old Highlands Landfill: arsenic and lead in well MW-5B; chromium and vanadium in well MW-6A; and cobalt in wells MW-1 and MW-7. Statistical analysis indicates that all of the above elevations are below background limits with the exception of the arsenic concentration in well MW-5B.

- The exceedances of groundwater standards are similar to those of previous monitoring events. However, these constituents have not been detected in nearby water supply sources.

- No Appendix I parameters were detected above groundwater standards in the samples collected from Spring A and Spring B with the exception of vinyl chloride in the Spring A sample.

- No Appendix I parameters were detected in the residential water supply samples with the exception of copper and zinc in the Chastain Well and McCall Well. The concentrations of copper and zinc were below North Carolina groundwater standards.

- No Appendix I parameters were detected above North Carolina groundwater standards in samples associated with the Highlands C&D Landfill with the exception of cobalt in well MW-B. However, the concentration of cobalt in well MW-B was less than the statistical limit calculated from background data.

Highlands Landfill

Macon County, North Carolina

Old Highlands Landfill Permit Number: 57-02
Highland C and D Landfill - Permit Number: 57-04

Figure 1:

Potentiometric Map

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

WATER QUALITY MONITORING PROGRAM
1ST SEMIANNUAL 2016 EVENT
GROUNDWATER POTENTIOMETRIC CONTOURS

LEGEND

- OLD HIGHLANDS MONITORING WELL LOCATION
- HIGHLANDS C&D MONITORING WELL LOCATION
- MW-8 — MONITORING WELL ID
- 3074.61 — STATIC GROUNDWATER ELEVATION, 4/14/15
- GROUNDWATER POTENTIOMETRIC CONTOURS
- FACILITY PROPERTY LINE
- APPROXIMATE WASTE LIMITS
- TOPOGRAPHIC CONTOURS
- STREAM
- SURFACE WATER SAMPLE LOCATION
- WATER SUPPLY SAMPLE LOCATION
- PATH FOR HYDRAULIC GRADIENT CALCULATION

ALL MEASUREMENTS IN FEET

SCALE: 1" = 500'

PREPARED BY:
REI CONSULTANTS, INC.
MAY 2016

REFERENCES: "GROUNDWATER MONITORING SITE PLAN, HIGHLANDS LANDFILLS" PISGAH ENVIRONMENTAL, UNDATED
"EM SURVEY RESULTS, FRACTURE TRACES, LANDFILL BOUNDARIES, WELLS" PIN-POINT ENVIRONMENTAL SERVICES, INC., SEPTEMBER 1997

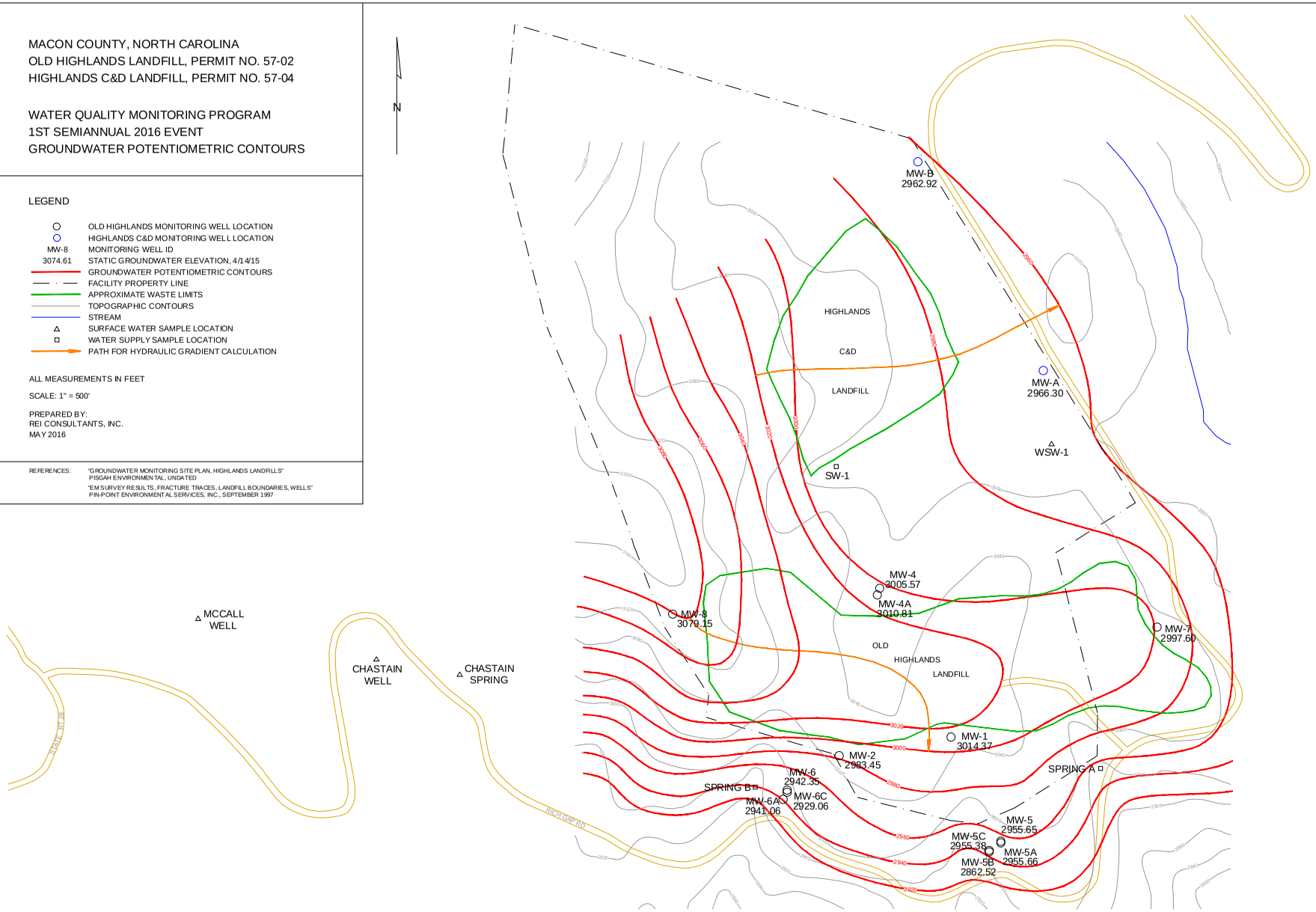

Table 1
Summary of Monitoring Well Data and Static Water Levels
Old Highlands and Highlands C and D Landfills
1st Semi-annual 2016 Monitoring Event

Well ID	Installation Date	Well Diameter (in)	Total Well Depth* (ft)	Depth to Top of Screen** (ft)	Length of Screened Interval (ft)	Geology of Screened Interval	Top of Casing Elevation (ft above MSL)	Ground Elevation (ft above MSL)	Static Depth to Water* (ft)	Groundwater Elevation (ft above MSL)	Latitude	Longitude
Old Highlands Landfill												
MW-1	N/A	2	44.70	N/A	N/A	Bedrock	3048.12	N/A	33.75	3014.37	N 35° 00' 58.2"	W 083° 10' 29.8"
MW-2	N/A	2	71.90	N/A	N/A	Bedrock	3044.82	N/A	61.37	2983.45	N/A	N/A
MW-4	N/A	2	25.00	N/A	N/A	Saprolite	3019.55	N/A	13.98	3005.57	N 35° 01' 02.9"	W 083° 10' 32.8"
MW-4A	N/A	2	50.23	N/A	N/A	N/A	3019.26	N/A	8.45	3010.81	N 35° 01' 03.3"	W 083° 10' 32.7"
MW-5	3/25/1997	2	27.60	26.5	2.5	Saprolite	2969.82	2966.74	14.17	2955.65	N 35° 00' 54.5"	W 083° 10' 27.1"
MW-5A	3/25/1997	2	27.67	10	15	Saprolite	2969.36	2966.34	13.70	2955.66	N 35° 00' 54.3"	W 083° 10' 26.9"
MW-5B	6/27/1997	2	196.55	No Screen	No Screen	Bedrock	2966.44	2964.99	103.92	2862.52	N 35° 00' 54.3"	W 083° 10' 27.3"
MW-5C	N/A	2	52.00	N/A	N/A	N/A	2969.59	N/A	14.21	2955.38	N 35° 00' 54.6"	W 083° 10' 27.0"
MW-6	3/25/1997	2	23.30	17.5	2.5	Saprolite	2948.60	2945.46	6.25	2942.35	N 35° 00' 56.2"	W 083° 10' 36.5"
MW-6A	3/25/1997	2	17.68	5	10	Saprolite	2948.76	2945.54	7.70	2941.06	N 35° 00' 55.9"	W 083° 10' 36.3"
MW-6C	N/A	2	39.65	N/A	N/A	N/A	2947.44	N/A	18.38	2929.06	N 35° 00' 56.2"	W 083° 10' 36.4"
MW-7	N/A	2	37.88	N/A	N/A	N/A	3024.90	N/A	27.30	2997.60	N 35° 01' 02.3"	W 083° 10' 20.8"
MW-8	N/A	2	43.10	N/A	N/A	N/A	3113.36	N/A	34.21	3079.15	N 35° 01' 02.0"	W 083° 10' 42.0"
Highlands C&D Landfill												
MW-A	N/A	2	19.54	N/A	N/A	N/A	2972.20	N/A	5.90	2966.30	N 35° 01' 11.2"	W 083° 10' 26.2"
MW-B	N/A	2	20.15	N/A	N/A	N/A	2968.70	N/A	5.78	2962.92	N 35° 01' 18.3"	W 083° 10' 31.6"

* - measured from top of casing
** - measured from ground surface
MSL - mean sea level
N/A - not available

TABLE 2: Summary of Field Sampling

Old Highlands Landfill (Permit: #57-02)

REIC Job #: 16041546
Sampling Date: 4/12/2016
Sampler(s): Mcbride / Farley / Talley / Bennett
Weather Conditions: Cloudy & Partly Cloudy - 56 - 67°F

Property	Units	MW-1	MW-2	MW-4	MW-4A	MW-5
Sampling Depth	Feet	40.96	65.31	14.21	8.73	15.41
Static Depth	Feet	33.75	61.37	13.98	8.45	14.17
Well Depth	Feet	44.70	71.90	25.00	50.23	27.60
Water Column Height	Feet	10.95	10.53	11.02	41.78	13.43
Volume Purged	Liters	19	19	20	73	9
Purging Status	-	Finished Purging	Finished Purging	Finished Purging	Finished Purging	Purged Dry
Physical Property	Units	MW-1	MW-2	MW-4	MW-4A	MW-5
pH	SU	5.95	5.76 Dup 5.75	5.90	6.09	5.66
Temperature	°C	14.2	14.2 Dup 14.2	10.7	12.9	13.2
Conductivity	umhos/cm	485	196.6 Dup 197.5	146.1	1047	124.3
Turbidity	NTU	9.84	12.99 Dup 9.41	97.7	16.56	14.81
Appearance	-	Clear	Clear	Cloudy	Clear	Clear
Odor	-	No Odor	Slight Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	mg/L	43.5	13.5	98	11.3	16.5

Property	Units	MW-5A	MW-5B	MW-5C	MW-6	MW-6A
Sampling Depth	Feet	13.85	190.08	39.30	15.51	7.78
Static Depth	Feet	13.70	103.92	14.21	6.25	7.70
Well Depth	Feet	27.67	196.55	52.00	23.30	17.68
Water Column Height	Feet	13.97	92.63	37.79	17.05	9.98
Volume Purged	Liters	25	63	66	8	20
Purging Status	-	Finished Purging	Purged Dry	Finished Purging	Purged Dry	Finished Purging
Physical Property	Units	MW-5A	MW-5B	MW-5C	MW-6	MW-6A
pH	SU	6.16 Dup 6.14	8.92	6.88	5.92	5.92
Temperature	°C	13.2 Dup 13.0	14.4	13.7	13.6	13.1
Conductivity	umhos/cm	69.6 Dup 67.6	405	450	24.8	29.2
Turbidity	NTU	36.6 Dup	66.1	56.9	3.58	70.5
Appearance	-	Cloudy	Cloudy	Cloudy	Clear	Cloudy
Odor	-	No Odor	No Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	mg/L	20.5	604	166	6.5	295

TABLE 2: Summary of Field Sampling

Old Highlands Landfill (Permit: #57-02)

REIC Job #: 16041546
Sampling Date: 4/12/2016
Sampler(s): Mcbride / Farley / Talley / Bennett
Weather Conditions: Cloudy & Partly Cloudy - 56 - 67°F

Property	Units	MW-6C	MW-7	MW-8	Spring A	Spring B
Sampling Depth	Feet	19.71	29.22	34.71	-	-
Static Depth	Feet	18.38	27.33	34.12	-	-
Well Depth	Feet	39.65	37.88	43.10	-	-
Water Column Height	Feet	21.27	10.55	8.89	-	-
Volume Purged	Liters	23	19	16	-	-
Purging Status	-	Purged Dry	Finished Purging	Finished Purging	-	-
Physical Property	Units	MW-6C	MW-7	MW-8	Spring A	Spring B
pH	SU	6.34	6.08	5.80	5.94	6.58
Temperature	°C	13.4	13.4	13.5	11.5	14.4
Conductivity	umhos/cm	75.4	821	23.9	36.3	19.31
Turbidity	NTU	9.45	19.4	238	10.07	5.59
Appearance	-	Clear	Cloudy	Cloudy	Clear	Clear
Odor	-	No Odor	Strong Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	mg/L	-	74	555	-	-

Property	Units	Chastain Spring	Chastain Well	McCall Well
Sampling Depth	Feet	-	-	-
Static Depth	Feet	-	-	-
Well Depth	Feet	-	-	-
Water Column Height	Feet	-	-	-
Volume Purged	Liters	-	-	-
Purging Status	-	-	-	-
Physical Property	Units	Chastain Spring	Chastain Well	McCall Well
pH	SU	6.63	6.13	5.75
Temperature	°C	13.4	15.0	17.3
Conductivity	umhos/cm	14.56	27.1	14.37
Turbidity	NTU	0.09	0.71	0.36
Appearance	-	Clear	Clear	Clear
Odor	-	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	mg/L	-	-	-

TABLE 2: Summary of Field Sampling

Highlands C&D Landfill (Permit: #57-04)

REIC Job #: 16041540
Sampling Date: 4/12/2016
Sampler(s): Mcbride /Farley / Talley / Bennett
Weather Conditions: Cloudy 60 - 61°F

Property	Units	MW-A	MW-B	SW-1	WSW-1
Sampling Depth	Feet	5.97	6.01	-	-
Static Depth	Feet	5.90	5.78	-	-
Well Depth	Feet	19.54	20.15	-	-
Water Column Height	Feet	13.64	14.37	-	-
Volume Purged	Liters	25	25	-	-
Purging Status	-	Finished Purging	Finished Purging	-	-
Physical Property	Units	MW-A	MW-B	SW-1	WSW-1
pH	SU	5.52 Dup 5.51	5.72	7.46	7.37
Temperature	°C	12.6 Dup 12.6	11.8	12.7	14.1
Conductivity	umhos/cm	25.7 Dup 26.0	508	60.6	80.1
Turbidity	NTU	39.0 Dup 38.8	78.1	1.52	0.11
Appearance	-	Cloudy	Cloudy	Clear	Clear
Odor	-	No Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	mg/L	39	133	-	-

TABLE 3: SUMMARY OF DETECTIONS

1st Semiannual 2016 Event
Old Highlands Landfill - Permit No: 57-02
Macon County, North Carolina

VOCs	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
1,4-Dichlorobenzene	6	1	5.3	1.1	-	3.3	3.3	-	-	-	-	-	-	8.8	-	-	-	-	-	-
Benzene	1	1	2.1	-	-	1.6	-	-	-	1.0	-	-	-	3.4	-	-	-	-	-	-
Chlorobenzene	50	3	6.0	-	-	13.0	-	-	-	-	-	-	-	6.4	-	-	-	-	-	-
cis-1,2-Dichloroethene	70	5	-	-	-	-	46.5	5.2	21.1	-	-	-	-	17.2	-	-	-	-	-	-
Ethylbenzene	600	1	-	-	-	-	-	-	-	-	-	-	-	18.4	-	-	-	-	-	-
Toluene	600	1	-	-	-	-	-	-	-	-	-	-	-	20.8	-	-	-	-	-	-
Vinyl chloride	0.03	1	9.3	1.3	-	3.3	68.4	-	7.7	21.2	-	-	-	51.9	-	1.3	-	-	-	-
Xylenes	500	5	-	-	-	-	-	-	-	-	-	-	-	30.7	-	-	-	-	-	-
METALS	**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**
Arsenic	10	10	-	-	-	-	-	-	10.1	-	-	-	-	-	-	-	-	-	-	-
Barium	700	100	129	-	-	229	-	-	-	-	-	102	-	132	111	-	-	-	-	-
Beryllium	4	1	-	-	-	-	-	-	1.1	-	-	1.2	-	-	-	-	-	-	-	-
Chromium	10	10	-	-	-	-	-	-	-	-	-	13.5	-	-	-	-	-	-	-	-
Cobalt	1	10	30.8	-	-	-	-	-	-	-	-	-	-	39.3	-	-	-	-	-	-
Copper	1000	10	-	-	-	-	-	-	34.8	-	-	20.3	-	-	-	-	-	-	190	44.4
Lead	15	10	-	-	11.3	-	-	-	16.2	-	-	-	-	-	-	-	-	-	-	-
Vanadium	0.3	25	-	-	-	-	-	-	-	-	-	43.0	-	-	-	-	-	-	-	-
Zinc	1000	10	-	11.7	11.0	-	-	-	52.7	17.4	-	22.6	25.1	17.3	10.7	-	-	-	14.9	10.6
Total Suspended Solids (TSS)		1	44	14	98	11	17	21	604	166	7	295	-	74	555	-	-	-	-	-

NOTES:

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

TABLE 3: SUMMARY OF DETECTIONS

1st Semiannual 2016 Event
Highlands C&D Landfill - Permit No: 57-04
Macon County, North Carolina

METALS	NC 2L	SWSL	MW-A	MW-B	SW-1	WSW-1
Cobalt	1	10	-	14.7	-	-
Copper	1000	10	-	11.0	-	-
Zinc	1000	10	37.7	13.8	17.5	-
Total Suspended Solids (TSS)			39	133	-	-

NOTES:

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

Highlands Landfill

Macon County, North Carolina

Old Highlands Landfill Permit Number: 57-02

Highland C and D Landfill - Permit Number: 57-04

Appendix A:

Groundwater Flow Rate Calculations

Old Highlands

Flow Path		
X	Y	Distance (ft)
2407.6	1030.1	
2410.7	1021.4	9.3
2414.2	1014.4	7.8
2420.2	1006.7	9.7
2427.9	998.9	11.0
2443.7	986.7	20.0
2461.7	976.2	20.8
2483.9	966.1	24.4
2507.7	957.6	25.3
2548.7	945.6	42.8
2595.2	933.7	48.0
2636.7	926.3	42.1
2681.1	920.1	44.9
2728.1	915.9	47.2
2767.8	912.9	39.8
2810.2	911.0	42.4
2863.1	907.3	53.0
2926.2	900.8	63.4
2991.5	889.4	66.3
3057.7	871.3	68.7
3116.4	847.0	63.5
3165.4	815.9	58.1
3199.6	785.8	45.6
3220.8	760.7	32.8
3234.0	734.6	29.3
3241.9	711.5	24.4
3246.6	684.3	27.6
3248.7	659.6	24.7
3249.8	641.2	18.5
3250.3	620.3	20.9
3249.9	595.8	24.5
3249.0	578.6	17.2
3247.7	557.8	20.9

Hydraulic gradient, I = 0.073 ft / ft

K = 2.8E-04 cm / sec

n_{eff} = 0.25

V = KI / n_{eff} = 80 ft / yr

Horizontal Distance 1094.8 ft

Vertical Difference 80 ft

Highlands C&D

Flow Path		
X	Y	Distance (ft)
2638.0	1885.0	
2675.6	1893.0	38.5
2703.5	1898.0	28.3
2732.6	1901.6	29.3
2760.8	1904.0	28.3
2791.4	1905.2	30.7
2900.6	1907.6	109.2
2974.2	1909.0	73.7
3061.6	1912.0	87.4
3129.9	1915.1	68.4
3180.8	1919.9	51.2
3214.9	1925.2	34.5
3255.3	1932.7	41.1
3299.4	1943.2	45.4
3356.5	1959.1	59.3
3416.9	1983.1	65.0
3478.7	2013.2	68.7
3558.5	2054.6	89.9
3617.6	2086.1	67.0
3666.3	2110.2	54.3
3709.8	2131.7	48.5

Hydraulic gradient, I = 0.054 ft / ft

K = 2.8E-04 cm / sec

n_{eff} = 0.25

V = KI / n_{eff} = 60 ft / yr

Horizontal Distance	1118.5	ft
Vertical Difference	60	ft

Highlands Landfill

Macon County, North Carolina

Old Highlands Landfill Permit Number: 57-02
Highland C and D Landfill - Permit Number: 57-04

Appendix B:

Field Sampling Logs

Highlands Landfill

Macon County, North Carolina

Old Highlands Landfill Permit Number: 57-02

Highland C and D Landfill - Permit Number: 57-04

Old Highlands Landfill

Field Sampling Logs

pH / Conductivity Meter:	FS-PH- 2
ph Probe:	FS-PHP- 2
Conductivity Probe:	FS-CP- 2
Turbidity Meter:	FS-TURB- 2

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Highlands Landfill | Project : 1st Semi 2016 | 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: LOCK RUSTED - WILL NOT LOCK.

PURGING DATA

Date/Time: 4/12/2016 12:10 | Weather Conditions: Partly Cloudy | 65 °F

Static Depth (Depth to Water)	33.75	(Ft)	Volume	6.34	(Liters)
Well Depth	44.70	(Ft)	3 Volumes	19.02	(Liters)
Water Column Height	10.95	(Ft)	Volume Purged	19.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
12:13	5.94	492.0	14.9	2.60	1
12:14	5.97	511.0	14.5	16.58	3
12:15	5.99	524.0	14.3	40.30	6
12:16	5.99	524.0	14.1	71.20	9
12:18	6.02	519.0	14.2	78.30	12
12:19	6.00	500.0	14.2	67.00	15
12:20		Finished Purging			19

SAMPLING DATA

Date: 4/12/2016 | Time: 12:22 / 12:25

Method: Teflon Bailer | Sampling Depth: 40.96'

pH: 5.95 ***(SU)*** | Conductivity: 485 ***(umhos/cm)***

Temperature: 14.2 ***(°C)*** | Turbidity: 9.84 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Mcbride / Farley / Talley / Bennett | Initials: A.M | Date: 4/12/2016

Sample Set Page 1 of 13

pH / Conductivity Meter:	FS-PH- 2
ph Probe:	FS-PHP- 2
Conductivity Probe:	FS-CP- 2
Turbidity Meter:	FS-TURB- 2

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Highlands Landfill | Project : 1st Semi 2016 | 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: Hinge Broken on Well Casing

PURGING DATA

Date/Time: 4/12/2016 11:30 | Weather Conditions: Cloudy | 63 °F

Static Depth (Depth to Water)	61.37	(Ft)	Volume	6.09 (Liters)
Well Depth	71.90	(Ft)	3 Volumes	18.29 (Liters)
Water Column Height	10.53	(Ft)	Volume Purged	19.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
11:33	5.26	73.1	14.6	13.99	1
11:35	5.27	73.3	14.3	55.80	3
11:36	5.47	106.5	14.0	49.10	6
11:37	5.62	105.5	14.1	50.00	9
11:39	5.70	170.7	14.1	43.60	12
11:40	5.71	186.9	14.0	32.30	15
11:42		Finished Purging			19

SAMPLING DATA

Date: 4/12/2016 | Time: 11:44 / 11:53

Method: Teflon Bailer | Sampling Depth: 65.31'

pH: 5.76 Dup 5.75 ***(SU)*** | Conductivity: 196.6 Dup 197.5 ***(umhos/cm)***

Temperature: 14.2 Dup 14.2 ***(°C)*** | Turbidity: 12.99 Dup 9.41 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: Slight Odor

Comments:

Sampled By: Mcbride / Farley / Talley / Bennett | Initials: A.M | Date: 4/12/2016

Sample Set Page 2 of 13

pH / Conductivity Meter:	FS-PH- 2
ph Probe:	FS-PHP- 2
Conductivity Probe:	FS-CP- 2
Turbidity Meter:	FS-TURB- 2

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Highlands Landfill | Project : 1st Semi 2016 | 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: 4/12/2016 08:41 | Weather Conditions: Cloudy | °F

Static Depth (Depth to Water)	13.98	(Ft)	Volume	6.38	(Liters)
Well Depth	25.00	(Ft)	3 Volumes	19.14	(Liters)
Water Column Height	11.02	(Ft)	Volume Purged	20.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
08:44	5.80	170.9	11.7	1.42	1
08:46	5.85	146.2	10.9	110.00	4
08:47	5.86	142.9	10.7	131.00	8
08:48	5.88	144.2	10.6	107.00	12
08:49	5.90	144.9	10.6	115.00	16
08:51	5.90	142.6	10.6	86.50	20
08:51		Finished Purging			20

SAMPLING DATA

Date: 4/12/2016 | Time: 08:53 / 08:57

Method: Teflon Bailer | Sampling Depth: 14.21'

pH: 5.90 ***(SU)*** | Conductivity: 146.1 ***(umhos/cm)***

Temperature: 10.7 ***(°C)*** | Turbidity: 97.7 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Mcbride / Farley / Talley / Bennett | Initials: A.M | Date: 4/12/2016

Sample Set Page 3 of 13

pH / Conductivity Meter:	FS-PH- 2
ph Probe:	FS-PHP- 2
Conductivity Probe:	FS-CP- 2
Turbidity Meter:	FS-TURB- 2

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Highlands Landfill | Project : 1st Semi 2016 | 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:

PURGING DATA

Date/Time: 4/12/2016 09:02 | Weather Conditions: Cloudy | 57 °F

Static Depth (Depth to Water)	8.45	(Ft)	Volume	24.19 (Liters)
Well Depth	50.23	(Ft)	3 Volumes	72.57 (Liters)
Water Column Height	41.78	(Ft)	Volume Purged	73.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
09:04	6.18	53.2	10.8	43.90	1
09:06	6.24	199.6	11.3	154.00	13
09:09	6.06	501.0	12.6	98.20	26
09:12	6.09	992.0	12.8	39.80	39
09:15	6.08	1039.0	12.9	12.13	52
09:18	6.09	1045.0	12.9	14.67	65
09:19		Finished Purging			73

SAMPLING DATA

Date: 4/12/2016 | Time: 09:20 / 09:23

Method: Teflon Bailer | Sampling Depth: 8.73'

pH: 6.09 ***(SU)*** | Conductivity: 1047 ***(umhos/cm)***

Temperature: 12.9 ***(°C)*** | Turbidity: 16.56 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Mcbride / Farley / Talley / Bennett | Initials: A.M | Date: 4/12/2016

Sample Set Page 4 of 13

pH / Conductivity Meter:	FS-PH- 1
ph Probe:	FS-PHP- 1
Conductivity Probe:	FS-CP- 1
Turbidity Meter:	FS-TURB- 1

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Highlands Landfill | Project : 1st Semi 2016 | 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: 4/12/2016 10:38 | Weather Conditions: Cloudy | °F

Static Depth (Depth to Water)	14.17	(Ft)	Volume	7.77 (Liters)
Well Depth	27.60	(Ft)	3 Volumes	23.32 (Liters)
Water Column Height	13.43	(Ft)	Volume Purged	9.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
10:41	7.71	119.8	12.0	3.59	1
10:43	7.23	115.0	11.9	5.58	4
10:46	6.81	113.6	12.4	11.79	8
10:47		Purged Dry			9

SAMPLING DATA

Date: 4/12/2016 | Time: 12:32 / 12:36

Method: Teflon Bailer | Sampling Depth: 15.41'

pH: 5.66 ***(SU)*** | Conductivity: 124.3 ***(umhos/cm)***

Temperature: 13.2 ***(°C)*** | Turbidity: 14.81 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Mcbride / Farley / Talley / Bennett | Initials: RF | Date: 4/12/2016

Sample Set Page 5 of 13

pH / Conductivity Meter:	FS-PH- 1
ph Probe:	FS-PHP- 1
Conductivity Probe:	FS-CP- 1
Turbidity Meter:	FS-TURB- 1

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Highlands Landfill | Project : 1st Semi 2016 | 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: 4/12/2016 10:51 | Weather Conditions: Cloudy | 60 °F

Static Depth (Depth to Water)	13.70	(Ft)	Volume	80.09 (Liters)
Well Depth	27.67	(Ft)	3 Volumes	24.26 (Liters)
Water Column Height	13.97	(Ft)	Volume Purged	25.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
11:01	6.07	88.7	11.9	2.24	1
11:04	6.08	67.4	12.1	13.99	5
11:06	6.02	65.4	11.5	17.45	10
11:08	6.02	64.0	11.5	64.70	15
11:10	6.00	61.7	11.5	54.40	20
11:13	6.00	62.5	11.5	62.70	25
11:13		Finished Purging			25

SAMPLING DATA

Date: 4/12/2016 | Time: 12:00 / 12:05

Method: Teflon Bailer | Sampling Depth: 13.85'

pH: 6.16 Dup 6.14 ***(SU)*** | Conductivity: 69.6 Dup 67.6 ***(umhos/cm)***

Temperature: 13.2 Dup 13.0 ***(°C)*** | Turbidity: 36.6 Dup ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Mcbride / Farley / Talley / Bennett | Initials: RF | Date: 4/12/2016

Sample Set Page 6 of 13

pH / Conductivity Meter:	FS-PH- 1
ph Probe:	FS-PHP- 1
Conductivity Probe:	FS-CP- 1
Turbidity Meter:	FS-TURB- 1

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Highlands Landfill | Project : 1st Semi 2016 | 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: 4/12/2016 10:26 | Weather Conditions: Cloudy | 60 °F

Static Depth (Depth to Water)	103.92	(Ft)	Volume	53.63	(Liters)
Well Depth	196.55	(Ft)	3 Volumes	160.89	(Liters)
Water Column Height	92.63	(Ft)	Volume Purged	63.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
-	-	-	-	-	-
10:58	8.13	311.0	14.0	15.01	28
11:30	9.95	525.0	13.6	44.20	56
11:38		Purged Dry			63

SAMPLING DATA

Date: 4/12/2016 | Time: 12:40 / 12:45

Method: Teflon Bailer | Sampling Depth: 190.08'

pH: 8.92 ***(SU)*** | Conductivity: 405 ***(umhos/cm)***

Temperature: 14.4 ***(°C)*** | Turbidity: 66.1 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Mcbride / Farley / Talley / Bennett | Initials: RF | Date: 4/12/2016

Sample Set Page 7 of 13

pH / Conductivity Meter:	FS-PH- 1
ph Probe:	FS-PHP- 1
Conductivity Probe:	FS-CP- 1
Turbidity Meter:	FS-TURB- 1

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Highlands Landfill | Project : 1st Semi 2016 | 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: 4/12/2016 09:49 | Weather Conditions: Cloudy | 59 °F

Static Depth (Depth to Water)	14.21	(Ft)	Volume	21.88 (Liters)
Well Depth	52.00	(Ft)	3 Volumes	65.64 (Liters)
Water Column Height	37.79	(Ft)	Volume Purged	66.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
10:00	6.39	315.0	12.5	103.00	1
10:04	6.88	471.0	13.0	120.00	12
10:08	7.09	482.0	13.2	91.60	24
10:12	7.12	477.0	13.2	306.00	36
10:17	7.11	479.0	13.2	256.00	48
10:22	7.10	474.0	13.2	335.00	60
10:24		Finished Purging			66

SAMPLING DATA

Date: 4/12/2016 | Time: 12:25 / 12:27

Method: Teflon Bailer | Sampling Depth: 39.30'

pH: 6.88 ***(SU)*** | Conductivity: 450 ***(umhos/cm)***

Temperature: 13.7 ***(°C)*** | Turbidity: 56.9 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Mcbride / Farley / Talley / Bennett | Initials: RF | Date: 4/12/2016

Sample Set Page 8 of 13

pH / Conductivity Meter:	FS-PH- 1
ph Probe:	FS-PHP- 1
Conductivity Probe:	FS-CP- 1
Turbidity Meter:	FS-TURB- 1

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Highlands Landfill | Project : 1st Semi 2016 | Well #: MW-6

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

WELL CONDITION DATA

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

Comments:

PURGING DATA

Date/Time: 4/12/2016 09:15 | Weather Conditions: Cloudy | 56 °F

Static Depth (Depth to Water)	6.25	(Ft)	Volume	9.87	(Liters)
Well Depth	23.30	(Ft)	3 Volumes	29.61	(Liters)
Water Column Height	17.05	(Ft)	Volume Purged	8.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
09:19	8.42	31.0	12.5	1.35	1
09:21	6.96	25.8	12.4	7.19	4
09:24	6.24	24.4	12.7	74.80	8
09:24		Purged Dry			8

SAMPLING DATA

Date: 4/12/2016 | Time: 13:14 / 13:17

Method: Teflon Bailer | Sampling Depth: 15.51'

pH: 5.92 ***(SU)*** | Conductivity: 24.8 ***(umhos/cm)***

Temperature: 13.6 ***(°C)*** | Turbidity: 3.58 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Mcbride / Farley / Talley / Bennett | Initials: RF | Date: 4/12/2016

Sample Set Page 9 of 13

FS_GW_LOG#2_REV.0 (02-2016)
Form 1 of 1

pH / Conductivity Meter:	FS-PH- 1
ph Probe:	FS-PHP- 1
Conductivity Probe:	FS-CP- 1
Turbidity Meter:	FS-TURB- 1

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Highlands Landfill | Project : 1st Semi 2016 | 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: 4/12/2016 09:26 | Weather Conditions: Cloudy | 56 °F

Static Depth (Depth to Water)	7.70	(Ft)	Volume	5.77	(Liters)
Well Depth	17.68	(Ft)	3 Volumes	17.33	(Liters)
Water Column Height	9.98	(Ft)	Volume Purged	20.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
09:32	5.77	21.7	12.3	6.15	1
09:34	5.73	22.2	12.2	324.00	4
09:35	5.72	23.0	12.2	480.00	8
09:37	5.70	22.0	12.2	716.00	12
09:39	5.70	21.9	12.2	>800	16
09:40	5.69	22.0	12.2	>800	20
09:40		Finished Purging			20

SAMPLING DATA

Date: 4/12/2016 | Time: 13:00 / 13:06

Method: Teflon Bailer | Sampling Depth: 7.78'

pH: 5.92 ***(SU)*** | Conductivity: 29.2 ***(umhos/cm)***

Temperature: 13.1 ***(°C)*** | Turbidity: 70.5 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Mcbride / Farley / Talley / Bennett | Initials: RF | Date: 4/12/2016

Sample Set Page 10 of 13

pH / Conductivity Meter:	FS-PH- 1
ph Probe:	FS-PHP- 1
Conductivity Probe:	FS-CP- 1
Turbidity Meter:	FS-TURB- 1

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Highlands Landfill | Project : 1st Semi 2016 | 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: 4/12/2016 08:50 | Weather Conditions: Cloudy | 56 °F

Static Depth (Depth to Water)	18.38	(Ft)	Volume	12.31 (Liters)
Well Depth	39.65	(Ft)	3 Volumes	36.94 (Liters)
Water Column Height	21.27	(Ft)	Volume Purged	23.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
08:57	10.10	198.4	13.3	0.43	1
09:00	10.21	198.7	13.4	0.20	8
09:06	9.99	176.3	13.5	24.40	16
09:10		Purged Dry			23

SAMPLING DATA

Date: 4/12/2016 | Time: 13:15 / 13:19

Method: Teflon Bailer | Sampling Depth: 19.71'

pH: 6.34 ***(SU)*** | Conductivity: 75.4 ***(umhos/cm)***

Temperature: 13.4 ***(°C)*** | Turbidity: 9.45 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Mcbride / Farley / Talley / Bennett | Initials: RF | Date: 4/12/2016

Sample Set Page 11 of 13

pH / Conductivity Meter:	FS-PH- 2
ph Probe:	FS-PHP- 2
Conductivity Probe:	FS-CP- 2
Turbidity Meter:	FS-TURB- 2

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Highlands Landfill | Project : 1st Semi 2016 | Well #: MW-7

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

WELL CONDITION DATA

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

Comments:

PURGING DATA

Date/Time: 4/12/2016 12:36 | Weather Conditions: Partly Cloudy | 67 °F

Static Depth (Depth to Water)	27.33	(Ft)	Volume	6.10	(Liters)
Well Depth	37.88	(Ft)	3 Volumes	18.32	(Liters)
Water Column Height	10.55	(Ft)	Volume Purged	19.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
12:39	5.91	679.0	14.4	10.93	1
12:41	6.00	770.0	13.5	19.30	3
12:42	6.03	807.0	13.3	29.10	6
12:44	6.06	3804.0	13.4	31.50	9
12:46	6.09	806.0	13.3	37.60	12
12:47	6.09	806.0	13.3	53.80	15
12:49		Finished Purging			19

SAMPLING DATA

Date: 4/12/2016 | Time: 12:51 / 12:53

Method: Teflon Bailer | Sampling Depth: 29.22'

pH: 6.08 ***(SU)*** | Conductivity: 821 ***(umhos/cm)***

Temperature: 13.4 ***(°C)*** | Turbidity: 19.38 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: Strong Odor

Comments:

Sampled By: Mcbride / Farley / Talley / Bennett | Initials: A.M | Date: 4/12/2016

Sample Set Page 12 of 13

pH / Conductivity Meter:	FS-PH- 2
ph Probe:	FS-PHP- 2
Conductivity Probe:	FS-CP- 2
Turbidity Meter:	FS-TURB- 2

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Old Highlands Landfill | Project : 1st Semi 2016 | 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: 4/12/2016 11:08 | Weather Conditions: Cloudy | 61 °F

Static Depth (Depth to Water)	34.12	(Ft)	Volume	5.14	(Liters)
Well Depth	43.10	(Ft)	3 Volumes	15.44	(Liters)
Water Column Height	8.89	(Ft)	Volume Purged	16.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
11:11	5.96	26.6	13.9	6.20	1
11:12	5.87	25.1	13.6	90.10	3
11:14	5.89	24.1	13.4	155.00	6
11:15	5.84	24.1	13.3	180.00	9
11:16	5.86	24.0	13.2	182.00	12
11:17	5.87	23.9	13.2	239.00	15
11:17		Finished Purging			16

SAMPLING DATA

Date: 4/12/2016 | Time: 11:19 / 11:21

Method: Teflon Bailer | Sampling Depth: 34.71'

pH: 5.80 ***(SU)*** | Conductivity: 23.9 ***(umhos/cm)***

Temperature: 13.5 ***(°C)*** | Turbidity: 238 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Mcbride / Farley / Talley / Bennett | Initials: A.M | Date: 4/12/2016

Sample Set Page 13 of 13

Highlands Landfill

Macon County, North Carolina

Old Highlands Landfill Permit Number: 57-02

Highland C and D Landfill - Permit Number: 57-04

Highlands C&D Landfill

Field Sampling Logs

pH / Conductivity Meter:	FS-PH- 2
ph Probe:	FS-PHP- 2
Conductivity Probe:	FS-CP- 2
Turbidity Meter:	FS-TURB- 2

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Highlands C & D | Project : 1st Semi 2016 | 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: 4/12/2016 09:53 | Weather Conditions: Cloudy | 60 °F

Static Depth (Depth to Water)	5.90	(Ft)	Volume	7.89	(Liters)
Well Depth	19.54	(Ft)	3 Volumes	23.69	(Liters)
Water Column Height	13.64	(Ft)	Volume Purged	25.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
09:55	5.53	23.6	12.1	0.74	1
09:57	5.55	25.3	12.5	22.78	5
09:58	5.60	24.6	12.4	52.70	10
10:00	5.58	24.5	12.5	53.40	15
10:01	5.57	24.4	12.5	85.60	20
10:03	5.55	24.6	12.5	68.90	25
10:03		Finished Purging			25

SAMPLING DATA

Date: 4/12/2016 | Time: 10:07 / 10:14

Method: Teflon Bailer | Sampling Depth: 5.97'

pH: 5.52 Dup 5.51 ***(SU)*** | Conductivity: 25.7 Dup 26.0 ***(umhos/cm)***

Temperature: 12.6 Dup 12.6 ***(°C)*** | Turbidity: 39.0 Dup 38.8 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Mcbride /Farley / Talley / Bennett | Initials: | Date: 04/12/16

Sample Set Page 1 of 2

pH / Conductivity Meter:	FS-PH- 2
ph Probe:	FS-PHP- 2
Conductivity Probe:	FS-CP- 2
Turbidity Meter:	FS-TURB- 2

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Highlands C & D | Project : 1st Semi 2016 | 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: 4/12/2016 10:24 | Weather Conditions: Cloudy | 61 °F

Static Depth (Depth to Water)	5.78	(Ft)	Volume	8.32	(Liters)
Well Depth	20.15	(Ft)	3 Volumes	24.96	(Liters)
Water Column Height	14.37	(Ft)	Volume Purged	25.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)	Volume Purged (Liters)
10:27	5.67	576.0	12.0	3.39	1
10:28	5.72	574.0	11.6	91.80	5
10:29	5.72	558.0	11.6	88.00	10
10:31	5.74	543.0	11.8	107.00	15
10:33	5.76	527.0	11.8	96.00	20
10:34	5.77	517.0	11.8	126.00	25
10:34		Finished Purging			25

SAMPLING DATA

Date: 4/12/2016 | Time: 10:36 / 10:40

Method: Teflon Bailer | Sampling Depth: 6.01'

pH: 5.72 ***(SU)*** | Conductivity: 508 ***(umhos/cm)***

Temperature: 11.8 ***(°C)*** | Turbidity: 78.1 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Mcbride /Farley / Talley / Bennett | Initials: | Date: 04/12/16

Sample Set Page 2 of 2

pH / Conductivity Meter:	FS-PH- 2
ph Probe:	FS-PHP- 2
Conductivity Probe:	FS-CP- 2
Turbidity Meter:	FS-TURB- 2

REI CONSULTANTS, INC. SURFACE WATER SAMPLING LOG

Project Name: Highlands C & D

Contact Person: Chris Stahl Phone/Fax: 828-349-2100

Outlet: SW-1

Date:	4/12/2016	Time:	09:32 / 09:38
pH:	7.46 ***SU***	Conductivity:	60.6 ***umhos/cm***
Flow:	N/A ***GPD***	Temperature:	12.7 ***°C***

Sample Odor and Physical Appearance: Clear - No Odor

Comments: Turbidity = 1.52 NTU

Sampled By: A. McBride / R. Talley Initials: A.M Date: 4/12/2016

Outlet: WSW-1

Date:	4/12/2016	Time:	09:46 / 09:51
pH:	7.37 ***SU***	Conductivity:	80.1 ***umhos/cm***
Flow:	N/A ***GPD***	Temperature:	14.1 ***°C***

Sample Odor and Physical Appearance: Clear - No Odor

Comments: Turbidity = 0.11 NTU

Sampled By: A. McBride / R. Talley Initials: A.M Date: 4/12/2016

Outlet:

Date:		Time:	
pH:	***SU***	Conductivity:	***umhos/cm***
Flow:	***GPD***	Temperature:	***°C***

Sample Odor and Physical Appearance:

Comments: Turbidity = NTU

Sampled By: Initials: Date:

Sample Set Page 1 of 1

Highlands Landfill

Macon County, North Carolina

Old Highlands Landfill Permit Number: 57-02
Highland C and D Landfill - Permit Number: 57-04

Appendix C:

Laboratory Results
and
Chain-of-Custody Record

Highlands Landfill

Macon County, North Carolina

Old Highlands Landfill Permit Number: 57-02
Highland C and D Landfill - Permit Number: 57-04

Old Highlands Landfill

Laboratory Results
and
Chain-of-Custody Record

REI Consultants, Inc.
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Website: www.reiclabs.com

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

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1557 Commerce Road, Suite 201
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TEL: 540.248.0183

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Monday, May 02, 2016

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

TEL: (828) 349-2000
FAX:

RE: OLD HIGHLANDS - 1SA-2016

Work Order #: 16041546

Dear Mr. Chris Stahl:

REI Consultants, Inc. received 21 sample(s) on 4/14/2016 for the analyses presented in the following report.

Sincerely,

Michelle Ellison

Michelle Ellison

Project Manager

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:22:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-01A	**Matrix:**	Groundwater
Client Sample ID:	MW-1	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 12:58 AM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 12:58 AM	
Barium	0.129	0.0010	0.100	NA		mg/L	4/22/2016 12:58 AM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 12:28 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 12:58 AM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 12:58 AM	
Cobalt	0.0308	0.0010	0.0100	NA		mg/L	4/22/2016 12:58 AM	
Copper	0.0010	0.0010	0.0100	NA	J	mg/L	4/22/2016 12:58 AM	
Lead	0.0004	0.0002	0.0100	NA	J	mg/L	4/22/2016 12:58 AM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/22/2016 12:58 AM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 12:58 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 12:58 AM	
Thallium	0.0003	0.0002	0.0055	NA	J	mg/L	4/22/2016 12:58 AM	
Vanadium	ND	0.0010	0.0250	NA		mg/L	4/22/2016 12:58 AM	
Zinc	0.0087	0.0030	0.0100	NA	J	mg/L	4/22/2016 12:58 AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/19/2016 12:47 AM	
Acetone	ND	4.88	100	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Benzene	2.11	0.129	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/19/2016 12:47 AM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/19/2016 12:47 AM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Chlorobenzene	5.99	0.177	3.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Chloroethane	3.75	0.942	10.0	NA	J	µg/L	4/19/2016 12:47 AM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/19/2016 12:47 AM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/19/2016 12:47 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:22:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-01A	**Matrix:**	Groundwater
Client Sample ID:	MW-1	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
1,4-Dichlorobenzene	5.32	0.287	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
cis-1,2-Dichloroethene	1.44	0.226	5.00	NA	J	µg/L	4/19/2016 12:47 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Vinyl chloride	9.32	0.223	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/19/2016 12:47 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	83.8	NA	75.9-132	NA		%Rec	4/19/2016 12:47 AM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA		%Rec	4/19/2016 12:47 AM	
Surr: Dibromofluoromethane	99.9	NA	80.1-127	NA		%Rec	4/19/2016 12:47 AM	
Surr: Toluene-d8	99.3	NA	72.4-119	NA		%Rec	4/19/2016 12:47 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	43.5	1.0	5.0	NA		mg/L	4/15/2016 1:25 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 11:44:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-02A	**Matrix:**	Groundwater
Client Sample ID:	MW-2	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 1:04 AM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:04 AM	
Barium	0.0482	0.0010	0.100	NA	J	mg/L	4/22/2016 1:04 AM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 12:33 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 1:04 AM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:04 AM	
Cobalt	0.0097	0.0010	0.0100	NA	J	mg/L	4/22/2016 1:04 AM	
Copper	0.0034	0.0010	0.0100	NA	J	mg/L	4/22/2016 1:04 AM	
Lead	0.0005	0.0002	0.0100	NA	J	mg/L	4/22/2016 1:04 AM	
Nickel	0.0025	0.0020	0.0500	NA	J	mg/L	4/22/2016 1:04 AM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:04 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:04 AM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 1:04 AM	
Vanadium	0.0012	0.0010	0.0250	NA	J	mg/L	4/22/2016 1:04 AM	
Zinc	0.0117	0.0030	0.0100	NA		mg/L	4/22/2016 1:04 AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/19/2016 1:15 AM	
Acetone	ND	4.88	100	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/19/2016 1:15 AM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/19/2016 1:15 AM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Chlorobenzene	0.920	0.177	3.00	NA	J	µg/L	4/19/2016 1:15 AM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/19/2016 1:15 AM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/19/2016 1:15 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 11:44:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-02A	**Matrix:**	Groundwater
Client Sample ID:	MW-2	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
1,4-Dichlorobenzene	1.07	0.287	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
cis-1,2-Dichloroethene	1.61	0.226	5.00	NA	J	µg/L	4/19/2016 1:15 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Vinyl chloride	1.33	0.223	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/19/2016 1:15 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	85.6	NA	75.9-132	NA		%Rec	4/19/2016 1:15 AM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA		%Rec	4/19/2016 1:15 AM	
Surr: Dibromofluoromethane	98.8	NA	80.1-127	NA		%Rec	4/19/2016 1:15 AM	
Surr: Toluene-d8	98.6	NA	72.4-119	NA		%Rec	4/19/2016 1:15 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	13.5	1.0	5.0	NA		mg/L	4/15/2016 1:25 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 11:44:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-03A	**Matrix:**	Groundwater
Client Sample ID:	MW-2 DUPLICATE	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 1:10 AM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:10 AM	
Barium	0.0490	0.0010	0.100	NA	J	mg/L	4/22/2016 1:10 AM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 12:39 PM	
Cadmium	0.0003	0.0002	0.0010	NA	J	mg/L	4/22/2016 1:10 AM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:10 AM	
Cobalt	0.0099	0.0010	0.0100	NA	J	mg/L	4/22/2016 1:10 AM	
Copper	0.0040	0.0010	0.0100	NA	J	mg/L	4/22/2016 1:10 AM	
Lead	0.0006	0.0002	0.0100	NA	J	mg/L	4/22/2016 1:10 AM	
Nickel	0.0039	0.0020	0.0500	NA	J	mg/L	4/22/2016 1:10 AM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:10 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:10 AM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 1:10 AM	
Vanadium	0.0012	0.0010	0.0250	NA	J	mg/L	4/22/2016 1:10 AM	
Zinc	0.0121	0.0030	0.0100	NA		mg/L	4/22/2016 1:10 AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/19/2016 1:44 AM	
Acetone	ND	4.88	100	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/19/2016 1:44 AM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/19/2016 1:44 AM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Chlorobenzene	0.950	0.177	3.00	NA	J	µg/L	4/19/2016 1:44 AM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/19/2016 1:44 AM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/19/2016 1:44 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 11:44:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-03A	**Matrix:**	Groundwater
Client Sample ID:	MW-2 DUPLICATE	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
1,4-Dichlorobenzene	1.06	0.287	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
cis-1,2-Dichloroethene	1.71	0.226	5.00	NA	J	µg/L	4/19/2016 1:44 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Vinyl chloride	1.46	0.223	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/19/2016 1:44 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	83.2	NA	75.9-132	NA		%Rec	4/19/2016 1:44 AM	
Surr: 4-Bromofluorobenzene	103	NA	73.6-132	NA		%Rec	4/19/2016 1:44 AM	
Surr: Dibromofluoromethane	98.9	NA	80.1-127	NA		%Rec	4/19/2016 1:44 AM	
Surr: Toluene-d8	99.0	NA	72.4-119	NA		%Rec	4/19/2016 1:44 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	22.5	1.0	5.0	NA		mg/L	4/15/2016 1:25 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 8:53:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-04A	**Matrix:**	Groundwater
Client Sample ID:	MW-4	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 1:26 AM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:26 AM	
Barium	0.0798	0.0010	0.100	NA	J	mg/L	4/22/2016 1:26 AM	
Beryllium	0.0002	0.0002	0.0010	NA	J	mg/L	4/26/2016 12:56 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 1:26 AM	
Chromium	0.0030	0.0010	0.0100	NA	J	mg/L	4/22/2016 1:26 AM	
Cobalt	0.0039	0.0010	0.0100	NA	J	mg/L	4/22/2016 1:26 AM	
Copper	0.0062	0.0010	0.0100	NA	J	mg/L	4/22/2016 1:26 AM	
Lead	0.0113	0.0002	0.0100	NA		mg/L	4/22/2016 1:26 AM	
Nickel	0.0031	0.0020	0.0500	NA	J	mg/L	4/22/2016 1:26 AM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:26 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:26 AM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 1:26 AM	
Vanadium	0.0026	0.0010	0.0250	NA	J	mg/L	4/22/2016 1:26 AM	
Zinc	0.0110	0.0030	0.0100	NA		mg/L	4/22/2016 1:26 AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/19/2016 2:12 AM	
Acetone	ND	4.88	100	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/19/2016 2:12 AM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/19/2016 2:12 AM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/19/2016 2:12 AM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/19/2016 2:12 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 8:53:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-04A	**Matrix:**	Groundwater
Client Sample ID:	MW-4	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
1,4-Dichlorobenzene	0.590	0.287	1.00	NA	J	µg/L	4/19/2016 2:12 AM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Vinyl chloride	ND	0.223	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/19/2016 2:12 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	80.6	NA	75.9-132	NA		%Rec	4/19/2016 2:12 AM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA		%Rec	4/19/2016 2:12 AM	
Surr: Dibromofluoromethane	95.6	NA	80.1-127	NA		%Rec	4/19/2016 2:12 AM	
Surr: Toluene-d8	99.5	NA	72.4-119	NA		%Rec	4/19/2016 2:12 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	98.0	1.4	7.0	NA		mg/L	4/15/2016 1:25 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 9:20:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-05A	**Matrix:**	Groundwater
Client Sample ID:	MW-4 A	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 1:32 AM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:32 AM	
Barium	0.229	0.0010	0.100	NA		mg/L	4/22/2016 1:32 AM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 1:01 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 1:32 AM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:32 AM	
Cobalt	0.0093	0.0010	0.0100	NA	J	mg/L	4/22/2016 1:32 AM	
Copper	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:32 AM	
Lead	0.0003	0.0002	0.0100	NA	J	mg/L	4/22/2016 1:32 AM	
Nickel	0.0043	0.0020	0.0500	NA	J	mg/L	4/22/2016 1:32 AM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:32 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:32 AM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 1:32 AM	
Vanadium	0.0013	0.0010	0.0250	NA	J	mg/L	4/22/2016 1:32 AM	
Zinc	0.0097	0.0030	0.0100	NA	J	mg/L	4/22/2016 1:32 AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/19/2016 2:40 AM	
Acetone	ND	4.88	100	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Benzene	1.57	0.129	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/19/2016 2:40 AM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/19/2016 2:40 AM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Chlorobenzene	13.0	0.177	3.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/19/2016 2:40 AM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/19/2016 2:40 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 9:20:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-05A	**Matrix:**	Groundwater
Client Sample ID:	MW-4 A	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
1,4-Dichlorobenzene	3.34	0.287	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Ethylbenzene	0.900	0.178	1.00	NA	J	µg/L	4/19/2016 2:40 AM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Vinyl chloride	3.29	0.223	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/19/2016 2:40 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	84.8	NA	75.9-132	NA		%Rec	4/19/2016 2:40 AM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA		%Rec	4/19/2016 2:40 AM	
Surr: Dibromofluoromethane	99.0	NA	80.1-127	NA		%Rec	4/19/2016 2:40 AM	
Surr: Toluene-d8	98.6	NA	72.4-119	NA		%Rec	4/19/2016 2:40 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	11.3	1.4	7.0	NA		mg/L	4/15/2016 1:25 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:32:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-06A	**Matrix:**	Groundwater
Client Sample ID:	MW-5	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 1:38 AM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:38 AM	
Barium	0.0219	0.0010	0.100	NA	J	mg/L	4/22/2016 1:38 AM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 1:39 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 1:38 AM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:38 AM	
Cobalt	0.0018	0.0010	0.0100	NA	J	mg/L	4/22/2016 1:38 AM	
Copper	0.0032	0.0010	0.0100	NA	J	mg/L	4/22/2016 1:38 AM	
Lead	0.0008	0.0002	0.0100	NA	J	mg/L	4/22/2016 1:38 AM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/22/2016 1:38 AM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:38 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:38 AM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 1:38 AM	
Vanadium	ND	0.0010	0.0250	NA		mg/L	4/22/2016 1:38 AM	
Zinc	0.0090	0.0030	0.0100	NA	J	mg/L	4/22/2016 1:38 AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/19/2016 3:08 AM	
Acetone	ND	4.88	100	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Benzene	0.620	0.129	1.00	NA	J	µg/L	4/19/2016 3:08 AM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/19/2016 3:08 AM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/19/2016 3:08 AM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Chlorobenzene	0.680	0.177	3.00	NA	J	µg/L	4/19/2016 3:08 AM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/19/2016 3:08 AM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/19/2016 3:08 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:32:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-06A	**Matrix:**	Groundwater
Client Sample ID:	MW-5	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
1,4-Dichlorobenzene	3.31	0.287	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
cis-1,2-Dichloroethene	46.5	2.26	10.0	NA		µg/L	4/26/2016 3:58 PM	PA/VA
trans-1,2-Dichloroethene	0.660	0.392	5.00	NA	J	µg/L	4/19/2016 3:08 AM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Vinyl chloride	68.4	2.23	10.0	NA		µg/L	4/26/2016 3:58 PM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/19/2016 3:08 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	81.9	NA	75.9-132	NA		%Rec	4/19/2016 3:08 AM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA		%Rec	4/19/2016 3:08 AM	
Surr: Dibromofluoromethane	94.4	NA	80.1-127	NA		%Rec	4/19/2016 3:08 AM	
Surr: Toluene-d8	98.4	NA	72.4-119	NA		%Rec	4/19/2016 3:08 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	16.5	1.0	5.0	NA		mg/L	4/15/2016 1:25 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:00:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-07A	**Matrix:**	Groundwater
Client Sample ID:	MW-5 A	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 1:54 AM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:54 AM	
Barium	0.0115	0.0010	0.100	NA	J	mg/L	4/22/2016 1:54 AM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 1:44 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 1:54 AM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:54 AM	
Cobalt	0.0014	0.0010	0.0100	NA	J	mg/L	4/22/2016 1:54 AM	
Copper	0.0039	0.0010	0.0100	NA	J	mg/L	4/22/2016 1:54 AM	
Lead	0.0010	0.0002	0.0100	NA	J	mg/L	4/22/2016 1:54 AM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/22/2016 1:54 AM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:54 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 1:54 AM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 1:54 AM	
Vanadium	ND	0.0010	0.0250	NA		mg/L	4/22/2016 1:54 AM	
Zinc	0.0086	0.0030	0.0100	NA	J	mg/L	4/22/2016 1:54 AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/19/2016 3:37 AM	
Acetone	ND	4.88	100	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/19/2016 3:37 AM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/19/2016 3:37 AM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/19/2016 3:37 AM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/19/2016 3:37 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:00:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-07A	**Matrix:**	Groundwater
Client Sample ID:	MW-5 A	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
cis-1,2-Dichloroethene	5.16	0.226	5.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Vinyl chloride	0.930	0.223	1.00	NA	J	µg/L	4/19/2016 3:37 AM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/19/2016 3:37 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	83.6	NA	75.9-132	NA		%Rec	4/19/2016 3:37 AM	
Surr: 4-Bromofluorobenzene	104	NA	73.6-132	NA		%Rec	4/19/2016 3:37 AM	
Surr: Dibromofluoromethane	97.7	NA	80.1-127	NA		%Rec	4/19/2016 3:37 AM	
Surr: Toluene-d8	99.4	NA	72.4-119	NA		%Rec	4/19/2016 3:37 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	20.5	1.0	5.0	NA		mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:00:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-08A	**Matrix:**	Groundwater
Client Sample ID:	MW-5 A DUPLICATE	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 2:00 AM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:00 AM	
Barium	0.0130	0.0010	0.100	NA	J	mg/L	4/22/2016 2:00 AM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 1:50 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 2:00 AM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:00 AM	
Cobalt	0.0015	0.0010	0.0100	NA	J	mg/L	4/22/2016 2:00 AM	
Copper	0.0045	0.0010	0.0100	NA	J	mg/L	4/22/2016 2:00 AM	
Lead	0.0012	0.0002	0.0100	NA	J	mg/L	4/22/2016 2:00 AM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/22/2016 2:00 AM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:00 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:00 AM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 2:00 AM	
Vanadium	ND	0.0010	0.0250	NA		mg/L	4/22/2016 2:00 AM	
Zinc	0.0059	0.0030	0.0100	NA	J	mg/L	4/22/2016 2:00 AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/19/2016 4:05 AM	
Acetone	ND	4.88	100	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/19/2016 4:05 AM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/19/2016 4:05 AM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/19/2016 4:05 AM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/19/2016 4:05 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:00:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-08A	**Matrix:**	Groundwater
Client Sample ID:	MW-5 A DUPLICATE	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
cis-1,2-Dichloroethene	5.24	0.226	5.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Vinyl chloride	1.12	0.223	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/19/2016 4:05 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	84.4	NA	75.9-132	NA		%Rec	4/19/2016 4:05 AM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA		%Rec	4/19/2016 4:05 AM	
Surr: Dibromofluoromethane	97.2	NA	80.1-127	NA		%Rec	4/19/2016 4:05 AM	
Surr: Toluene-d8	98.7	NA	72.4-119	NA		%Rec	4/19/2016 4:05 AM	

Notes:

Matrix spike recoveries were not within laboratory control limits due to matrix interference. Acceptable LCS recovery indicates the analysis was in control.

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:00:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-08A	**Matrix:**	Groundwater
Client Sample ID:	MW-5 A DUPLICATE	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	24.0	1.0	5.0	NA		mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:40:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-09A	**Matrix:**	Groundwater
Client Sample ID:	MW-5 B	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	0.0006	0.0002	0.0060	NA	J	mg/L	4/22/2016 2:17 AM	
Arsenic	0.0101	0.0010	0.0100	NA		mg/L	4/22/2016 2:17 AM	
Barium	0.0822	0.0010	0.100	NA	J	mg/L	4/22/2016 2:17 AM	
Beryllium	0.0011	0.0002	0.0010	NA		mg/L	4/26/2016 2:07 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 2:17 AM	
Chromium	0.0014	0.0010	0.0100	NA	J	mg/L	4/22/2016 2:17 AM	
Cobalt	0.0013	0.0010	0.0100	NA	J	mg/L	4/22/2016 2:17 AM	
Copper	0.0348	0.0010	0.0100	NA		mg/L	4/22/2016 2:17 AM	
Lead	0.0162	0.0002	0.0100	NA		mg/L	4/22/2016 2:17 AM	
Nickel	0.0065	0.0020	0.0500	NA	J	mg/L	4/22/2016 2:17 AM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:17 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:17 AM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 2:17 AM	
Vanadium	0.0025	0.0010	0.0250	NA	J	mg/L	4/22/2016 2:17 AM	
Zinc	0.0527	0.0030	0.0100	NA		mg/L	4/22/2016 2:17 AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/19/2016 4:33 AM	
Acetone	ND	4.88	100	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/19/2016 4:33 AM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Carbon disulfide	13.4	1.27	100	NA	J	µg/L	4/19/2016 4:33 AM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/19/2016 4:33 AM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/19/2016 4:33 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:40:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-09A	**Matrix:**	Groundwater
Client Sample ID:	MW-5 B	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
1,4-Dichlorobenzene	0.550	0.287	1.00	NA	J	µg/L	4/19/2016 4:33 AM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
cis-1,2-Dichloroethene	21.1	0.226	5.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Tetrachloroethene	0.540	0.196	1.00	NA	J	µg/L	4/19/2016 4:33 AM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Vinyl chloride	7.69	0.223	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/19/2016 4:33 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	84.2	NA	75.9-132	NA		%Rec	4/19/2016 4:33 AM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA		%Rec	4/19/2016 4:33 AM	
Surr: Dibromofluoromethane	97.8	NA	80.1-127	NA		%Rec	4/19/2016 4:33 AM	
Surr: Toluene-d8	98.9	NA	72.4-119	NA		%Rec	4/19/2016 4:33 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	604	4.0	20.0	NA		mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:25:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-10A	**Matrix:**	Groundwater
Client Sample ID:	MW-5 C	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 2:23 AM	
Arsenic	0.0015	0.0010	0.0100	NA	J	mg/L	4/22/2016 2:23 AM	
Barium	0.0831	0.0010	0.100	NA	J	mg/L	4/22/2016 2:23 AM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 2:12 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 2:23 AM	
Chromium	0.0024	0.0010	0.0100	NA	J	mg/L	4/22/2016 2:23 AM	
Cobalt	0.0011	0.0010	0.0100	NA	J	mg/L	4/22/2016 2:23 AM	
Copper	0.0071	0.0010	0.0100	NA	J	mg/L	4/22/2016 2:23 AM	
Lead	0.0036	0.0002	0.0100	NA	J	mg/L	4/22/2016 2:23 AM	
Nickel	0.0027	0.0020	0.0500	NA	J	mg/L	4/22/2016 2:23 AM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:23 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:23 AM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 2:23 AM	
Vanadium	ND	0.0010	0.0250	NA		mg/L	4/22/2016 2:23 AM	
Zinc	0.0174	0.0030	0.0100	NA		mg/L	4/22/2016 2:23 AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/19/2016 5:01 AM	
Acetone	ND	4.88	100	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Benzene	1.04	0.129	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/19/2016 5:01 AM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/19/2016 5:01 AM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/19/2016 5:01 AM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/19/2016 5:01 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:25:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-10A	**Matrix:**	Groundwater
Client Sample ID:	MW-5 C	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
1,4-Dichlorobenzene	0.700	0.287	1.00	NA	J	µg/L	4/19/2016 5:01 AM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
cis-1,2-Dichloroethene	0.580	0.226	5.00	NA	J	µg/L	4/19/2016 5:01 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Vinyl chloride	21.2	0.223	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/19/2016 5:01 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	81.0	NA	75.9-132	NA		%Rec	4/19/2016 5:01 AM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA		%Rec	4/19/2016 5:01 AM	
Surr: Dibromofluoromethane	97.3	NA	80.1-127	NA		%Rec	4/19/2016 5:01 AM	
Surr: Toluene-d8	99.0	NA	72.4-119	NA		%Rec	4/19/2016 5:01 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	166	4.0	20.0	NA		mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:14:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-11A	**Matrix:**	Groundwater
Client Sample ID:	MW-6	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 2:28 AM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:28 AM	
Barium	0.0146	0.0010	0.100	NA	J	mg/L	4/22/2016 2:28 AM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 2:18 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 2:28 AM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:28 AM	
Cobalt	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:28 AM	
Copper	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:28 AM	
Lead	ND	0.0002	0.0100	NA		mg/L	4/22/2016 2:28 AM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/22/2016 2:28 AM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:28 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:28 AM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 2:28 AM	
Vanadium	ND	0.0010	0.0250	NA		mg/L	4/22/2016 2:28 AM	
Zinc	0.0033	0.0030	0.0100	NA	J	mg/L	4/22/2016 2:28 AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/19/2016 5:29 AM	
Acetone	ND	4.88	100	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/19/2016 5:29 AM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/19/2016 5:29 AM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/19/2016 5:29 AM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/19/2016 5:29 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:14:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-11A	**Matrix:**	Groundwater
Client Sample ID:	MW-6	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Vinyl chloride	ND	0.223	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/19/2016 5:29 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	80.9	NA	75.9-132	NA		%Rec	4/19/2016 5:29 AM	
Surr: 4-Bromofluorobenzene	100	NA	73.6-132	NA		%Rec	4/19/2016 5:29 AM	
Surr: Dibromofluoromethane	95.5	NA	80.1-127	NA		%Rec	4/19/2016 5:29 AM	
Surr: Toluene-d8	98.4	NA	72.4-119	NA		%Rec	4/19/2016 5:29 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	6.5	1.0	5.0	NA		mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:00:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-12A	**Matrix:**	Groundwater
Client Sample ID:	MW-6 A	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 2:34 AM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:34 AM	
Barium	0.102	0.0010	0.100	NA		mg/L	4/22/2016 2:34 AM	
Beryllium	0.0012	0.0002	0.0010	NA		mg/L	4/26/2016 2:24 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 2:34 AM	
Chromium	0.0135	0.0010	0.0100	NA		mg/L	4/22/2016 2:34 AM	
Cobalt	0.0048	0.0010	0.0100	NA	J	mg/L	4/22/2016 2:34 AM	
Copper	0.0203	0.0010	0.0100	NA		mg/L	4/22/2016 2:34 AM	
Lead	0.0062	0.0002	0.0100	NA	J	mg/L	4/22/2016 2:34 AM	
Nickel	0.0070	0.0020	0.0500	NA	J	mg/L	4/22/2016 2:34 AM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:34 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:34 AM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 2:34 AM	
Vanadium	0.0430	0.0010	0.0250	NA		mg/L	4/22/2016 2:34 AM	
Zinc	0.0226	0.0030	0.0100	NA		mg/L	4/22/2016 2:34 AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/19/2016 5:58 AM	
Acetone	ND	4.88	100	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/19/2016 5:58 AM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/19/2016 5:58 AM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/19/2016 5:58 AM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/19/2016 5:58 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:00:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-12A	**Matrix:**	Groundwater
Client Sample ID:	MW-6 A	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Vinyl chloride	ND	0.223	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/19/2016 5:58 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	82.4	NA	75.9-132	NA		%Rec	4/19/2016 5:58 AM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA		%Rec	4/19/2016 5:58 AM	
Surr: Dibromofluoromethane	97.6	NA	80.1-127	NA		%Rec	4/19/2016 5:58 AM	
Surr: Toluene-d8	99.4	NA	72.4-119	NA		%Rec	4/19/2016 5:58 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	295	2.0	10	NA		mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:15:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-13A	**Matrix:**	Groundwater
Client Sample ID:	MW-6 C	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 2:39 AM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:39 AM	
Barium	0.0245	0.0010	0.100	NA	J	mg/L	4/22/2016 2:39 AM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 2:29 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 2:39 AM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:39 AM	
Cobalt	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:39 AM	
Copper	0.0055	0.0010	0.0100	NA	J	mg/L	4/22/2016 2:39 AM	
Lead	ND	0.0002	0.0100	NA		mg/L	4/22/2016 2:39 AM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/22/2016 2:39 AM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:39 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:39 AM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 2:39 AM	
Vanadium	0.0018	0.0010	0.0250	NA	J	mg/L	4/22/2016 2:39 AM	
Zinc	0.0251	0.0030	0.0100	NA		mg/L	4/22/2016 2:39 AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/19/2016 6:26 AM	
Acetone	ND	4.88	100	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/19/2016 6:26 AM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/19/2016 6:26 AM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/19/2016 6:26 AM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/19/2016 6:26 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:15:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-13A	**Matrix:**	Groundwater
Client Sample ID:	MW-6 C	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Vinyl chloride	ND	0.223	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/19/2016 6:26 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	84.0	NA	75.9-132	NA		%Rec	4/19/2016 6:26 AM	
Surr: 4-Bromofluorobenzene	103	NA	73.6-132	NA		%Rec	4/19/2016 6:26 AM	
Surr: Dibromofluoromethane	98.4	NA	80.1-127	NA		%Rec	4/19/2016 6:26 AM	
Surr: Toluene-d8	98.1	NA	72.4-119	NA		%Rec	4/19/2016 6:26 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	ND	1.0	5.0	NA		mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:51:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-14A	**Matrix:**	Groundwater
Client Sample ID:	MW-7	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 2:45 AM	
Arsenic	0.0043	0.0010	0.0100	NA	J	mg/L	4/22/2016 2:45 AM	
Barium	0.132	0.0010	0.100	NA		mg/L	4/22/2016 2:45 AM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 2:46 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 2:45 AM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:45 AM	
Cobalt	0.0393	0.0010	0.0100	NA		mg/L	4/22/2016 2:45 AM	
Copper	0.0017	0.0010	0.0100	NA	J	mg/L	4/22/2016 2:45 AM	
Lead	0.0029	0.0002	0.0100	NA	J	mg/L	4/22/2016 2:45 AM	
Nickel	0.0043	0.0020	0.0500	NA	J	mg/L	4/22/2016 2:45 AM	
Selenium	0.0011	0.0010	0.0100	NA	J	mg/L	4/22/2016 2:45 AM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 2:45 AM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 2:45 AM	
Vanadium	0.0011	0.0010	0.0250	NA	J	mg/L	4/22/2016 2:45 AM	
Zinc	0.0173	0.0030	0.0100	NA		mg/L	4/22/2016 2:45 AM	

Notes:

The CCV for Be exceeds laboratory control limits, indicating a high bias. Since the analyte was not detected in the sample, the reported result is not affected by this bias.

VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/18/2016 3:52 PM	
Acetone	30.6	4.88	100	NA	J	µg/L	4/18/2016 3:52 PM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Benzene	3.43	0.129	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/18/2016 3:52 PM	PA/VA
2-Butanone	27.4	4.68	100	NA	J	µg/L	4/18/2016 3:52 PM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/18/2016 3:52 PM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Chlorobenzene	6.38	0.177	3.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/18/2016 3:52 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:51:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-14A	**Matrix:**	Groundwater
Client Sample ID:	MW-7	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/18/2016 3:52 PM	PA/VA
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
1,4-Dichlorobenzene	8.78	0.287	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
1,1-Dichloroethane	0.500	0.383	5.00	NA	J	µg/L	4/18/2016 3:52 PM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
cis-1,2-Dichloroethene	17.2	0.226	5.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Ethylbenzene	18.4	0.178	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
4-Methyl-2-pentanone	5.12	4.40	100	NA	J	µg/L	4/18/2016 3:52 PM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Toluene	20.8	0.167	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Vinyl chloride	51.9	2.23	10.0	NA		µg/L	4/26/2016 4:33 PM	PA/VA
o-Xylene	12.6	0.186	1.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
m,p-Xylene	18.1	0.287	2.00	NA		µg/L	4/18/2016 3:52 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	89.8	NA	75.9-132	NA		%Rec	4/18/2016 3:52 PM	
Surr: 4-Bromofluorobenzene	100	NA	73.6-132	NA		%Rec	4/18/2016 3:52 PM	
Surr: Dibromofluoromethane	101	NA	80.1-127	NA		%Rec	4/18/2016 3:52 PM	
Surr: Toluene-d8	97.1	NA	72.4-119	NA		%Rec	4/18/2016 3:52 PM	

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:51:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-14A	**Matrix:**	Groundwater
Client Sample ID:	MW-7	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	74.0	1.4	7.0	NA		mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 11:19:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-15A	**Matrix:**	Groundwater
Client Sample ID:	MW-8	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/26/2016 2:52 PM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/26/2016 2:52 PM	
Barium	0.111	0.0010	0.100	NA		mg/L	4/26/2016 2:52 PM	
Beryllium	0.0005	0.0002	0.0010	NA	J	mg/L	4/27/2016 11:02 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 2:52 PM	
Chromium	0.0032	0.0010	0.0100	NA	J	mg/L	4/26/2016 2:52 PM	
Cobalt	0.0042	0.0010	0.0100	NA	J	mg/L	4/26/2016 2:52 PM	
Copper	0.0080	0.0010	0.0100	NA	J	mg/L	4/26/2016 2:52 PM	
Lead	0.0051	0.0002	0.0100	NA	J	mg/L	4/27/2016 11:02 PM	
Nickel	0.0022	0.0020	0.0500	NA	J	mg/L	4/26/2016 2:52 PM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/26/2016 2:52 PM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/26/2016 2:52 PM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/26/2016 2:52 PM	
Vanadium	0.0086	0.0010	0.0250	NA	J	mg/L	4/26/2016 2:52 PM	
Zinc	0.0107	0.0030	0.0100	NA		mg/L	4/26/2016 2:52 PM	

Notes:

The CCV for Be exceeds laboratory control limits, indicating a high bias. Since the analyte was not detected in the sample, the reported result is not affected by this bias.

VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/18/2016 4:25 PM	
Acetone	ND	4.88	100	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/18/2016 4:25 PM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/18/2016 4:25 PM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/18/2016 4:25 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 11:19:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-15A	**Matrix:**	Groundwater
Client Sample ID:	MW-8	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/18/2016 4:25 PM	PA/VA
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Vinyl chloride	ND	0.223	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/18/2016 4:25 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	87.1	NA	75.9-132	NA		%Rec	4/18/2016 4:25 PM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA		%Rec	4/18/2016 4:25 PM	
Surr: Dibromofluoromethane	98.9	NA	80.1-127	NA		%Rec	4/18/2016 4:25 PM	
Surr: Toluene-d8	98.1	NA	72.4-119	NA		%Rec	4/18/2016 4:25 PM	

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 11:19:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-15A	**Matrix:**	Groundwater
Client Sample ID:	MW-8	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	555	2.0	10	NA		mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 10:49:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-16A	**Matrix:**	Groundwater
Client Sample ID:	SPRING A	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/26/2016 2:57 PM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/26/2016 2:57 PM	
Barium	0.0127	0.0010	0.100	NA	J	mg/L	4/26/2016 2:57 PM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 2:57 PM	
Cadmium	0.0002	0.0002	0.0010	NA	J	mg/L	4/26/2016 2:57 PM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/26/2016 2:57 PM	
Cobalt	0.0011	0.0010	0.0100	NA	J	mg/L	4/26/2016 2:57 PM	
Copper	ND	0.0010	0.0100	NA		mg/L	4/26/2016 2:57 PM	
Lead	ND	0.0002	0.0100	NA		mg/L	4/26/2016 2:57 PM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/26/2016 2:57 PM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/26/2016 2:57 PM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/26/2016 2:57 PM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/26/2016 2:57 PM	
Vanadium	ND	0.0010	0.0250	NA		mg/L	4/26/2016 2:57 PM	
Zinc	0.0064	0.0030	0.0100	NA	J	mg/L	4/26/2016 2:57 PM	

Notes:

The CCV for Be exceeds laboratory control limits, indicating a high bias. Since the analyte was not detected in the sample, the reported result is not affected by this bias.

VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/18/2016 4:59 PM	
Acetone	ND	4.88	100	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/18/2016 4:59 PM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/18/2016 4:59 PM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/18/2016 4:59 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 10:49:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-16A	**Matrix:**	Groundwater
Client Sample ID:	SPRING A	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/18/2016 4:59 PM	PA/VA
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
cis-1,2-Dichloroethene	1.46	0.226	5.00	NA	J	µg/L	4/18/2016 4:59 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Vinyl chloride	1.34	0.223	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/18/2016 4:59 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	85.7	NA	75.9-132	NA		%Rec	4/18/2016 4:59 PM	
Surr: 4-Bromofluorobenzene	103	NA	73.6-132	NA		%Rec	4/18/2016 4:59 PM	
Surr: Dibromofluoromethane	97.5	NA	80.1-127	NA		%Rec	4/18/2016 4:59 PM	
Surr: Toluene-d8	99.5	NA	72.4-119	NA		%Rec	4/18/2016 4:59 PM	

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 10:49:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-16A	**Matrix:**	Groundwater
Client Sample ID:	SPRING A	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	2.0	1.0	5.0	NA	J	mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:10:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-17A	**Matrix:**	Groundwater
Client Sample ID:	SPRING B	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/26/2016 3:03 PM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:03 PM	
Barium	0.0160	0.0010	0.100	NA	J	mg/L	4/26/2016 3:03 PM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 3:03 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 3:03 PM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:03 PM	
Cobalt	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:03 PM	
Copper	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:03 PM	
Lead	ND	0.0002	0.0100	NA		mg/L	4/26/2016 3:03 PM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/26/2016 3:03 PM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:03 PM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:03 PM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/26/2016 3:03 PM	
Vanadium	ND	0.0010	0.0250	NA		mg/L	4/26/2016 3:03 PM	
Zinc	0.0035	0.0030	0.0100	NA	J	mg/L	4/26/2016 3:03 PM	

Notes:

The CCV for Be exceeds laboratory control limits, indicating a high bias. Since the analyte was not detected in the sample, the reported result is not affected by this bias.

VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/18/2016 5:33 PM	
Acetone	ND	4.88	100	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/18/2016 5:33 PM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/18/2016 5:33 PM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/18/2016 5:33 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:10:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-17A	**Matrix:**	Groundwater
Client Sample ID:	SPRING B	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/18/2016 5:33 PM	PA/VA
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Vinyl chloride	ND	0.223	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/18/2016 5:33 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	86.9	NA	75.9-132	NA		%Rec	4/18/2016 5:33 PM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA		%Rec	4/18/2016 5:33 PM	
Surr: Dibromofluoromethane	101	NA	80.1-127	NA		%Rec	4/18/2016 5:33 PM	
Surr: Toluene-d8	97.7	NA	72.4-119	NA		%Rec	4/18/2016 5:33 PM	

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:10:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-17A	**Matrix:**	Groundwater
Client Sample ID:	SPRING B	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	2.5	1.0	5.0	NA	J	mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:38:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-18A	**Matrix:**	Groundwater
Client Sample ID:	CHASTAIN SPRING	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/26/2016 3:09 PM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:09 PM	
Barium	0.0058	0.0010	0.100	NA	J	mg/L	4/26/2016 3:09 PM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 3:09 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 3:09 PM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:09 PM	
Cobalt	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:09 PM	
Copper	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:09 PM	
Lead	ND	0.0002	0.0100	NA		mg/L	4/26/2016 3:09 PM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/26/2016 3:09 PM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:09 PM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:09 PM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/26/2016 3:09 PM	
Vanadium	ND	0.0010	0.0250	NA		mg/L	4/26/2016 3:09 PM	
Zinc	0.0045	0.0030	0.0100	NA	J	mg/L	4/26/2016 3:09 PM	

Notes:

The CCV for Be exceeds laboratory control limits, indicating a high bias. Since the analyte was not detected in the sample, the reported result is not affected by this bias.

VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/18/2016 6:07 PM	
Acetone	ND	4.88	100	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/18/2016 6:07 PM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/18/2016 6:07 PM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/18/2016 6:07 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:38:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-18A	**Matrix:**	Groundwater
Client Sample ID:	CHASTAIN SPRING	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/18/2016 6:07 PM	PA/VA
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Vinyl chloride	ND	0.223	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/18/2016 6:07 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	86.9	NA	75.9-132	NA		%Rec	4/18/2016 6:07 PM	
Surr: 4-Bromofluorobenzene	103	NA	73.6-132	NA		%Rec	4/18/2016 6:07 PM	
Surr: Dibromofluoromethane	97.2	NA	80.1-127	NA		%Rec	4/18/2016 6:07 PM	
Surr: Toluene-d8	99.5	NA	72.4-119	NA		%Rec	4/18/2016 6:07 PM	

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:38:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-18A	**Matrix:**	Groundwater
Client Sample ID:	CHASTAIN SPRING	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	ND	1.0	5.0	NA		mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:30:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-19A	**Matrix:**	Groundwater
Client Sample ID:	CHASTAIN WELL	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/26/2016 3:14 PM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:14 PM	
Barium	0.0072	0.0010	0.100	NA	J	mg/L	4/26/2016 3:14 PM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 3:14 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 3:14 PM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:14 PM	
Cobalt	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:14 PM	
Copper	0.190	0.0010	0.0100	NA		mg/L	4/26/2016 3:14 PM	
Lead	0.0027	0.0002	0.0100	NA	J	mg/L	4/27/2016 11:08 PM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/26/2016 3:14 PM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:14 PM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:14 PM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/26/2016 3:14 PM	
Vanadium	ND	0.0010	0.0250	NA		mg/L	4/26/2016 3:14 PM	
Zinc	0.0149	0.0030	0.0100	NA		mg/L	4/26/2016 3:14 PM	

Notes:

The CCV for Be exceeds laboratory control limits, indicating a high bias. Since the analyte was not detected in the sample, the reported result is not affected by this bias.

VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/18/2016 6:40 PM	
Acetone	ND	4.88	100	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/18/2016 6:40 PM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/18/2016 6:40 PM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/18/2016 6:40 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:30:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-19A	**Matrix:**	Groundwater
Client Sample ID:	CHASTAIN WELL	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/18/2016 6:40 PM	PA/VA
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Vinyl chloride	ND	0.223	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/18/2016 6:40 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	87.9	NA	75.9-132	NA		%Rec	4/18/2016 6:40 PM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA		%Rec	4/18/2016 6:40 PM	
Surr: Dibromofluoromethane	101	NA	80.1-127	NA		%Rec	4/18/2016 6:40 PM	
Surr: Toluene-d8	99.1	NA	72.4-119	NA		%Rec	4/18/2016 6:40 PM	

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:30:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-19A	**Matrix:**	Groundwater
Client Sample ID:	CHASTAIN WELL	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	ND	1.0	5.0	NA		mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:43:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-20A	**Matrix:**	Groundwater
Client Sample ID:	MCCALL WELL	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/26/2016 3:20 PM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:20 PM	
Barium	0.0084	0.0010	0.100	NA	J	mg/L	4/26/2016 3:20 PM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 3:20 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/26/2016 3:20 PM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:20 PM	
Cobalt	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:20 PM	
Copper	0.0444	0.0010	0.0100	NA		mg/L	4/26/2016 3:20 PM	
Lead	0.0012	0.0002	0.0100	NA	J	mg/L	4/27/2016 11:14 PM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/26/2016 3:20 PM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:20 PM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/26/2016 3:20 PM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/26/2016 3:20 PM	
Vanadium	ND	0.0010	0.0250	NA		mg/L	4/26/2016 3:20 PM	
Zinc	0.0106	0.0030	0.0100	NA		mg/L	4/26/2016 3:20 PM	

Notes:

The CCV for Be exceeds laboratory control limits, indicating a high bias. Since the analyte was not detected in the sample, the reported result is not affected by this bias.

VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/18/2016 7:15 PM	
Acetone	ND	4.88	100	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/18/2016 7:15 PM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/18/2016 7:15 PM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/18/2016 7:15 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:43:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-20A	**Matrix:**	Groundwater
Client Sample ID:	MCCALL WELL	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/18/2016 7:15 PM	PA/VA
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Vinyl chloride	ND	0.223	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/18/2016 7:15 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	88.2	NA	75.9-132	NA		%Rec	4/18/2016 7:15 PM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA		%Rec	4/18/2016 7:15 PM	
Surr: Dibromofluoromethane	99.9	NA	80.1-127	NA		%Rec	4/18/2016 7:15 PM	
Surr: Toluene-d8	97.3	NA	72.4-119	NA		%Rec	4/18/2016 7:15 PM	

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 1:43:00 PM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-20A	**Matrix:**	Groundwater
Client Sample ID:	MCCALL WELL	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	ND	1.0	5.0	NA		mg/L	4/15/2016 1:41 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:00:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-21A	**Matrix:**	Trip Blank
Client Sample ID:	TRIP BLANK	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	100	NA		µg/L	4/18/2016 7:48 PM	
Acetone	ND	4.88	100	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Acrylonitrile	ND	4.24	200	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Benzene	ND	0.129	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Bromochloromethane	ND	0.346	3.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Bromoform	ND	0.400	3.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Bromomethane	ND	0.497	10.0	NA		µg/L	4/18/2016 7:48 PM	PA/VA
2-Butanone	ND	4.68	100	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Carbon disulfide	ND	1.27	100	NA		µg/L	4/18/2016 7:48 PM	
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Chlorobenzene	ND	0.177	3.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Chloroethane	ND	0.942	10.0	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Chloroform	ND	0.253	5.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Chloromethane	ND	0.327	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	4/18/2016 7:48 PM	PA/VA
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Dibromomethane	ND	0.293	10.0	NA		µg/L	4/18/2016 7:48 PM	PA/VA
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Ethylbenzene	ND	0.178	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
2-Hexanone	ND	4.11	50.0	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Iodomethane	ND	3.44	10.0	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Methylene chloride	ND	0.539	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Styrene	ND	0.240	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041546

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:00:00 AM
Project:	OLD HIGHLANDS - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041546-21A	**Matrix:**	Trip Blank
Client Sample ID:	TRIP BLANK	**Site ID:**	OLD HIGHLANDS

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Toluene	ND	0.167	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Trichloroethene	ND	0.302	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Vinyl acetate	ND	4.87	50.0	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Vinyl chloride	ND	0.223	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
o-Xylene	ND	0.186	1.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
m,p-Xylene	ND	0.287	2.00	NA		µg/L	4/18/2016 7:48 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	88.2	NA	75.9-132	NA		%Rec	4/18/2016 7:48 PM	
Surr: 4-Bromofluorobenzene	103	NA	73.6-132	NA		%Rec	4/18/2016 7:48 PM	
Surr: Dibromofluoromethane	100	NA	80.1-127	NA		%Rec	4/18/2016 7:48 PM	
Surr: Toluene-d8	99.4	NA	72.4-119	NA		%Rec	4/18/2016 7:48 PM	

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304)255-2500
Website: www.reiclabs.com

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

Sample Receipt Checklist

Client Name:	**MAC006**			Work Order Number:	**16041546**
RCPNo:	**1**	Date and Time Received:	**4/14/2016 12:22:56 PM**	Received by:	**Doug Arthur**
Completed By:	**Amanda Wilkins**		Reviewed By:		
Completed Date:	**4/14/2016 1:20:45 PM**		Reviewed Date:		

Carrier Name: REIC

1.	Chain of custody present?	Yes [x]	No [ ]	
2.	Chain of custody signed when relinquished and received?	Yes [x]	No [ ]	
3.	Are matrices correctly identified on Chain of custody?	Yes [x]	No [ ]	
4.	Is it clear what analyses were requested?	Yes [x]	No [ ]	
5.	Custody seals intact?	Yes [ ]	No [ ]	Not Present [x]
6.	Samples in proper container type and preservative?	Yes [x]	No [ ]	
7.	Were correct preservatives noted on COC?	Yes [x]	No [ ]	NA [ ]
8.	Sample containers intact?	Yes [x]	No [ ]	
9.	Sufficient sample volume for indicated test?	Yes [x]	No [ ]	
10.	Were container labels complete?	Yes [x]	No [ ]	
11.	All samples received within holding time?	Yes [x]	No [ ]	
12.	Was an attempt made to cool the samples?	Yes [x]	No [ ]	NA [ ]
13.	Sample Temp. taken and recorded upon receipt?	Yes [x]	No [ ]	To 1 ºC
14.	Water - Were bubbles absent in VOC vials?	Yes [x]	No [ ]	No Vials [ ]
15.	Are Samples considered acceptable?	Yes [x]	No [ ]	
16.	COC filled out properly?	Yes [x]	No [ ]	

Client Notification/Response

Client Name: **MAC006** Work Order Number: **16041546**

Comment:

Client Contacted: Yes [ ] No [ ] NA [x] Person Contacted:

Contact Mode: Phone [ ] Fax: [ ] Email: [ ] In Person: [ ]

Date Contacted: Contacted By:

Regarding:

Client Instructions:

Corrective Action:

CHAIN OF CUSTODY RECORD

REIC

Research Environmental & Industrial Consultants, Inc.
MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

MID-OHIO VALLEY Service Center
101 17th Street
Ashland, KY 41101
606-393-5027

SHENANDOAH Service Center
1557 Commerce Rd., Ste 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

v11-0615 REIC use ONLY CLIENT ID MAC 006 DATE _____ SHEET 1 of 3

Client: Macon Co Dept Of SWM PO # _____
Contact Person Chris Stahl Phone 828-439-2100
Address 109 Sierra City Franklin State NC Zip 28734
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State Old Highlands Proj ID 1 st Semi 2016 Sampler AM/RF/RT/JB

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: [•] NORMAL
RUSH TURNAROUND*: [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: [ ] Email [ ] Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

ANALYSIS & METHOD REQUESTED: NC APPENDIX 1 VOC; NC APPENDIX 1 METALS; TSS

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	#1	#2	#0	#	#	#	#	#	#	#
MW-1	2 P - 4 G	4-12-16 / 1222	G Water	Grab	X	X	X							
MW-2	2 P - 4 G	4-12-16 / 1144	G Water	Grab	X	X	X							
MW-2 Duplicate	6 P - 12 G	4-12-16 / 1144	G Water	Grab	X	X	X							
MW-4	2 P - 4 G	4-12-16 / 0853	G Water	Grab	X	X	X							
MW-4 A	2 P - 4 G	4-12-16 / 0920	G Water	Grab	X	X	X							
MW-5	2 P - 4 G	4-12-16 / 1232	G Water	Grab	X	X	X							
MW-5 A	2 P - 4 G	4-12-16 / 1200	G Water	Grab	X	X	X							
MW-5 A Duplicate	6 P - 12 G	4-12-16 / 1200	G Water	Grab	X	X	X							
MW-5 B	2 P - 4 G	4-12-16 / 1240	G Water	Grab	X	X	X							
MW-5 C	2 P - 4 G	4-12-16 / 1225	G Water	Grab	X	X	X							

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 Zinc Acetate *
*(Use blank for a preservative not listed.)

COMMENTS:
Analyze Dissolved Metals For Any Total Metal Detection.

Corrected IR # 2

Temperature at arrival: / °C ICED? Y X N___ Containers provided by: [X] REIC [ ] Client Delivered by: [ ] Client [X] REIC [ ] UPS [ ] FedEx [ ] USPS Other _____

	Relinquished by (signature)	Date/Time		Relinquished by (signature)	Date/Time		Relinquished by (signature)	Date/Time
1	R Fuller	4-14-16 0800	2			3		
	Received by (signature)	Date/Time		Received by (signature)	Date/Time		Received by (signature)	Date/Time
		4-14-16 0800						
4	Relinquished by (signature)	Date/Time	5	Relinquished by (signature)	Date/Time	6	Relinquished by (signature)	Date/Time
	Received by (signature)	Date/Time		Received by (signature)	Date/Time		Received by (signature)	Date/Time

CHAIN OF CUSTODY RECORD

REIC

Research Environmental & Industrial Consultants, Inc.
MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

MID-OHIO VALLEY Service Center
101 17th Street
Ashland, KY 41101
606-393-5027

SHENANDOAH Service Center
1557 Commerce Rd., Ste 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

v11-0615 REIC use ONLY CLIENT ID MAC 006 DATE _____ SHEET 2 of 3

Client: Macon Co Dept Of SWM PO # _____
Contact Person Chris Stahl Phone 828-439-2100
Address 109 Sierra City Franklin State NC Zip 28734
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State Old Highlands Proj ID 1 st Semi 2016 Sampler AM/RF/RT/JB

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: [•] NORMAL — RUSH TURNAROUND*: [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: [ ] Email [ ] Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

ANALYSIS & METHOD REQUESTED: NC APPENDIX 1 VOC; NC APPENDIX 1 METALS; TSS

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	#1	#2	#3							
MW-6	2 P - 4 G	4-12-16 / 1314	G Water	Grab	X	X	X							
MW-6 A	2 P - 4 G	4-12-16 / 1300	G Water	Grab	X	X	X							
MW-6 C	2 P - 4 G	4-12-16 / 1315	G Water	Grab	X	X	X							
MW-7	2 P - 4 G	4-12-16 / 1251	G Water	Grab	X	X	X							
MW-8	2 P - 4 G	4-12-16 / 1119	G Water	Grab	X	X	X							
SPRING A	2 P - 4 G	4-12-16 / 1049	G Water	Grab	X	X	X							
SPRING B	2 P - 4 G	4-12-16 / 1310	G Water	Grab	X	X	X							
Chastain Spring	2 P - 4 G	4-12-16 / 1338	G Water	Grab	X	X	X							
Chastain Well	2 P - 4 G	4-12-16 / 1330	G Water	Grab	X	X	X							
McCall Well	2 P - 4 G	4-12-16 / 1343	G Water	Grab	X	X	X							

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 Zinc Acetate *
*(Use blank for a preservative not listed.)

COMMENTS:
Analyze Dissolved Metals For Any Total Metal Detection.

Corrected IR # 2

Temperature at arrival: / °C ICED? Y X N___ Containers provided by: [X] REIC [ ] Client Delivered by: [ ] Client [X] REIC [ ] UPS [ ] FedEx [ ] USPS Other _____

	Relinquished by (signature)	Date/Time		Relinquished by (signature)	Date/Time		Relinquished by (signature)	Date/Time
1		4-14-16 0800	2			3		
	Received by (signature)	4-14-16 0800		Received by (signature)			Received by (signature)	
4	Relinquished by (signature)	Date/Time	5	Relinquished by (signature)	Date/Time	6	Relinquished by (signature)	Date/Time
	Received by (signature)	Date/Time		Received by (signature)	Date/Time		Received by (signature)	Date/Time

CHAIN OF CUSTODY RECORD

REIC

Research Environmental & Industrial Consultants, Inc.

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P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

MID-OHIO VALLEY Service Center	SHENANDOAH Service Center	ROANOKE Service Center	MORGANTOWN Service Center
101 17th Street	1557 Commerce Rd., Ste 201	3029-C Peters Creek Rd	16 Commerce Drive
Ashland, KY 41101	Verona, VA 24482	Roanoke, VA 24019	Westover, WV 26501
606-393-5027	540-248-0183	540-777-1276	304-241-5861

v11-0615 REIC use ONLY CLIENT ID MAC 006 DATE _____ SHEET 3 of 3

Client: Macon Co Dept Of SWM PO # _____
Contact Person Chris Stahl Phone 828-439-2100
Address 109 Sierra City Franklin State NC Zip 28734
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State Old Highlands Proj ID 1 st Semi 2016 Sampler AM/RF/RT/JB

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: (•) NORMAL ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY (RUSH TURNAROUND*)
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: ( ) Email ( ) Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

ANALYSIS & METHOD REQUESTED: NC APPENDIX 1 VOC

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	#0									
TRIP BLANK	2 VOA		Liquid		X									
			G Water	Grab										
			G Water	Grab										
			G Water	Grab										
			G Water	Grab										
			G Water	Grab										
			G Water	Grab										
			G Water	Grab										
			G Water	Grab										
			G Water	Grab										

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 Zinc Acetate *
* (Use blank for a preservative not listed.)

COMMENTS:
Analyze Dissolved Metals For Any Total Metal Detection.

Corrected IR # 2

Temperature at arrival: 1 °C ICED? Y X N___ Containers provided by: [X] REIC [ ] Client Delivered by: [ ] Client [X] REIC [ ] UPS [ ] FedEx [ ] USPS Other _____

	Relinquished by (signature)	Date/Time		Relinquished by (signature)	Date/Time		Relinquished by (signature)	Date/Time
1	R Finley	4-14-16 0900	2			3		
	Received by (signature)	Date/Time		Received by (signature)	Date/Time		Received by (signature)	Date/Time
		4-14-16 1000						
4	Relinquished by (signature)	Date/Time	5	Relinquished by (signature)	Date/Time	6	Relinquished by (signature)	Date/Time
	Received by (signature)	Date/Time		Received by (signature)	Date/Time		Received by (signature)	Date/Time

Highlands Landfill

Macon County, North Carolina

Old Highlands Landfill Permit Number: 57-02
Highland C and D Landfill - Permit Number: 57-04

Highlands C&D Landfill

Laboratory Results
and
Chain-of-Custody Record

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304) 255-2500
Website: www.reiclabs.com

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

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276

101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Monday, May 02, 2016

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

TEL: (828) 349-2000
FAX:

RE: HIGHLANDS C&D - 1SA-2016

Work Order #: 16041540

Dear Mr. Chris Stahl:

REI Consultants, Inc. received 6 sample(s) on 4/14/2016 for the analyses presented in the following report.

Sincerely,

Michelle Ellison

Michelle Ellison

Project Manager

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 10:07:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-01A	**Matrix:**	Groundwater
Client Sample ID:	MW-A	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 4:46 PM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 4:46 PM	
Barium	0.0167	0.0010	0.100	NA	J	mg/L	4/22/2016 4:46 PM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 4:46 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 4:46 PM	
Chromium	0.0020	0.0010	0.0100	NA	J	mg/L	4/22/2016 4:46 PM	
Cobalt	0.0012	0.0010	0.0100	NA	J	mg/L	4/22/2016 4:46 PM	
Copper	0.0058	0.0010	0.0100	NA	J	mg/L	4/22/2016 4:46 PM	
Lead	0.0023	0.0002	0.0100	NA	J	mg/L	4/22/2016 4:46 PM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/22/2016 4:46 PM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 4:46 PM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 4:46 PM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 4:46 PM	
Vanadium	0.0049	0.0010	0.0250	NA	J	mg/L	4/22/2016 4:46 PM	
Zinc	0.0377	0.0030	0.0100	NA		mg/L	4/22/2016 4:46 PM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	10.0	NA		µg/L	4/18/2016 12:29 PM	
Acetone	ND	5.00	100	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Acrylonitrile	ND	2.42	200	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Benzene	ND	0.250	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Bromochloromethane	ND	0.213	3.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Bromodichloromethane	ND	0.184	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Bromoform	ND	0.482	3.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Bromomethane	ND	0.420	10.0	NA		µg/L	4/18/2016 12:29 PM	PA/VA
2-Butanone	ND	4.74	100	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Carbon disulfide	ND	2.25	100	NA		µg/L	4/18/2016 12:29 PM	
Carbon tetrachloride	ND	0.166	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Chlorobenzene	ND	0.350	3.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Chloroethane	ND	0.270	10.0	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Chloroform	ND	0.400	5.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Chloromethane	ND	0.350	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Dibromochloromethane	ND	0.415	3.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.429	13.0	NA		µg/L	4/18/2016 12:29 PM	PA/VA
1,2-Dibromoethane	ND	0.399	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Dibromomethane	ND	0.418	10.0	NA		µg/L	4/18/2016 12:29 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 10:07:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-01A	**Matrix:**	Groundwater
Client Sample ID:	MW-A	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.480	5.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
1,4-Dichlorobenzene	ND	0.452	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
1,1-Dichloroethane	ND	0.250	5.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
1,2-Dichloroethane	ND	0.231	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
1,1-Dichloroethene	ND	0.280	5.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.200	5.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.250	5.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
1,2-Dichloropropane	ND	0.200	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.231	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.292	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Ethylbenzene	ND	0.311	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
2-Hexanone	ND	3.12	50.0	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Iodomethane	ND	2.22	10.0	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Methylene chloride	ND	0.420	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
4-Methyl-2-pentanone	ND	3.15	100	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Styrene	ND	0.346	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.359	5.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.497	3.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Tetrachloroethene	ND	0.290	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Toluene	ND	0.250	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
1,1,1-Trichloroethane	ND	0.250	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
1,1,2-Trichloroethane	ND	0.307	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Trichloroethene	ND	0.270	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Trichlorofluoromethane	ND	0.223	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
1,2,3-Trichloropropane	ND	0.428	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Vinyl acetate	ND	0.288	50.0	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Vinyl chloride	ND	0.350	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
o-Xylene	ND	0.306	1.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
m,p-Xylene	ND	0.698	2.00	NA		µg/L	4/18/2016 12:29 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	87.9	NA	75.9-132	NA		%Rec	4/18/2016 12:29 PM	
Surr: 4-Bromofluorobenzene	103	NA	73.6-132	NA		%Rec	4/18/2016 12:29 PM	
Surr: Dibromofluoromethane	97.8	NA	80.1-127	NA		%Rec	4/18/2016 12:29 PM	
Surr: Toluene-d8	97.8	NA	72.4-119	NA		%Rec	4/18/2016 12:29 PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: MD**	
Tetrahydrofuran	ND	12.5	50.0	NA		µg/L	4/18/2016 12:29 PM	
Surr: 1,2-Dichloroethane-d4	97.8	NA	80-120	NA		%Rec	4/18/2016 12:29 PM	
Surr: 4-Bromofluorobenzene	99.7	NA	80-120	NA		%Rec	4/18/2016 12:29 PM	

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 10:07:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-01A	**Matrix:**	Groundwater
Client Sample ID:	MW-A	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Surr: Dibromofluoromethane	98.9	NA	80-120	NA		%Rec	4/18/2016 12:29 PM	
Surr: Toluene-d8	96.8	NA	80-120	NA		%Rec	4/18/2016 12:29 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	39.0	1.0	5.0	NA		mg/L	4/15/2016 1:25 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 10:07:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-02A	**Matrix:**	Groundwater
Client Sample ID:	MW-A DUPLICATE	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 4:51 PM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 4:51 PM	
Barium	0.0151	0.0010	0.100	NA	J	mg/L	4/22/2016 4:51 PM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 4:51 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 4:51 PM	
Chromium	0.0017	0.0010	0.0100	NA	J	mg/L	4/22/2016 4:51 PM	
Cobalt	ND	0.0010	0.0100	NA		mg/L	4/22/2016 4:51 PM	
Copper	0.0047	0.0010	0.0100	NA	J	mg/L	4/22/2016 4:51 PM	
Lead	0.0015	0.0002	0.0100	NA	J	mg/L	4/22/2016 4:51 PM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/22/2016 4:51 PM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 4:51 PM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 4:51 PM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 4:51 PM	
Vanadium	0.0043	0.0010	0.0250	NA	J	mg/L	4/22/2016 4:51 PM	
Zinc	0.0082	0.0030	0.0100	NA	J	mg/L	4/27/2016 11:42 PM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	10.0	NA		µg/L	4/18/2016 1:03 PM	
Acetone	ND	5.00	100	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Acrylonitrile	ND	2.42	200	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Benzene	ND	0.250	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Bromochloromethane	ND	0.213	3.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Bromodichloromethane	ND	0.184	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Bromoform	ND	0.482	3.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Bromomethane	ND	0.420	10.0	NA		µg/L	4/18/2016 1:03 PM	PA/VA
2-Butanone	ND	4.74	100	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Carbon disulfide	ND	2.25	100	NA		µg/L	4/18/2016 1:03 PM	
Carbon tetrachloride	ND	0.166	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Chlorobenzene	ND	0.350	3.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Chloroethane	ND	0.270	10.0	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Chloroform	ND	0.400	5.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Chloromethane	ND	0.350	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Dibromochloromethane	ND	0.415	3.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.429	13.0	NA		µg/L	4/18/2016 1:03 PM	PA/VA
1,2-Dibromoethane	ND	0.399	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Dibromomethane	ND	0.418	10.0	NA		µg/L	4/18/2016 1:03 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 10:07:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-02A	**Matrix:**	Groundwater
Client Sample ID:	MW-A DUPLICATE	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.480	5.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
1,4-Dichlorobenzene	ND	0.452	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
1,1-Dichloroethane	ND	0.250	5.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
1,2-Dichloroethane	ND	0.231	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
1,1-Dichloroethene	ND	0.280	5.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.200	5.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.250	5.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
1,2-Dichloropropane	ND	0.200	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.231	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.292	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Ethylbenzene	ND	0.311	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
2-Hexanone	ND	3.12	50.0	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Iodomethane	ND	2.22	10.0	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Methylene chloride	ND	0.420	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
4-Methyl-2-pentanone	ND	3.15	100	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Styrene	ND	0.346	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.359	5.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.497	3.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Tetrachloroethene	ND	0.290	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Toluene	ND	0.250	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
1,1,1-Trichloroethane	ND	0.250	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
1,1,2-Trichloroethane	ND	0.307	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Trichloroethene	ND	0.270	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Trichlorofluoromethane	ND	0.223	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
1,2,3-Trichloropropane	ND	0.428	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Vinyl acetate	ND	0.288	50.0	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Vinyl chloride	ND	0.350	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
o-Xylene	ND	0.306	1.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
m,p-Xylene	ND	0.698	2.00	NA		µg/L	4/18/2016 1:03 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	85.6	NA	75.9-132	NA		%Rec	4/18/2016 1:03 PM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA		%Rec	4/18/2016 1:03 PM	
Surr: Dibromofluoromethane	98.6	NA	80.1-127	NA		%Rec	4/18/2016 1:03 PM	
Surr: Toluene-d8	99.0	NA	72.4-119	NA		%Rec	4/18/2016 1:03 PM	

Notes:

Matrix spike recoveries were not within laboratory control limits due to matrix interference. Acceptable LCS recovery indicates the analysis was in control.

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 10:07:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-02A	**Matrix:**	Groundwater
Client Sample ID:	MW-A DUPLICATE	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: MD**	
Tetrahydrofuran	ND	12.5	50.0	NA		µg/L	4/18/2016 1:03 PM	
Surr: 1,2-Dichloroethane-d4	95.3	NA	80-120	NA		%Rec	4/18/2016 1:03 PM	
Surr: 4-Bromofluorobenzene	97.4	NA	80-120	NA		%Rec	4/18/2016 1:03 PM	
Surr: Dibromofluoromethane	98.2	NA	80-120	NA		%Rec	4/18/2016 1:03 PM	
Surr: Toluene-d8	98.0	NA	80-120	NA		%Rec	4/18/2016 1:03 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	39.5	1.0	5.0	NA		mg/L	4/15/2016 1:25 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 10:36:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-03A	**Matrix:**	Groundwater
Client Sample ID:	MW-B	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	0.0002	0.0002	0.0060	NA	J	mg/L	4/22/2016 5:19 PM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:19 PM	
Barium	0.0460	0.0010	0.100	NA	J	mg/L	4/22/2016 5:19 PM	
Beryllium	0.0003	0.0002	0.0010	NA	J	mg/L	4/22/2016 5:19 PM	
Cadmium	0.0003	0.0002	0.0010	NA	J	mg/L	4/22/2016 5:19 PM	
Chromium	0.0020	0.0010	0.0100	NA	J	mg/L	4/22/2016 5:19 PM	
Cobalt	0.0147	0.0010	0.0100	NA		mg/L	4/22/2016 5:19 PM	
Copper	0.0110	0.0010	0.0100	NA		mg/L	4/22/2016 5:19 PM	
Lead	0.0034	0.0002	0.0100	NA	J	mg/L	4/22/2016 5:19 PM	
Nickel	0.0034	0.0020	0.0500	NA	J	mg/L	4/22/2016 5:19 PM	
Selenium	0.0011	0.0010	0.0100	NA	J	mg/L	4/22/2016 5:19 PM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:19 PM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 5:19 PM	
Vanadium	0.0038	0.0010	0.0250	NA	J	mg/L	4/22/2016 5:19 PM	
Zinc	0.0138	0.0030	0.0100	NA		mg/L	4/22/2016 5:19 PM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	10.0	NA		µg/L	4/18/2016 1:36 PM	
Acetone	ND	5.00	100	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Acrylonitrile	ND	2.42	200	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Benzene	ND	0.250	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Bromochloromethane	ND	0.213	3.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Bromodichloromethane	ND	0.184	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Bromoform	ND	0.482	3.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Bromomethane	ND	0.420	10.0	NA		µg/L	4/18/2016 1:36 PM	PA/VA
2-Butanone	ND	4.74	100	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Carbon disulfide	ND	2.25	100	NA		µg/L	4/18/2016 1:36 PM	
Carbon tetrachloride	ND	0.166	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Chlorobenzene	ND	0.350	3.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Chloroethane	ND	0.270	10.0	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Chloroform	ND	0.400	5.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Chloromethane	ND	0.350	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Dibromochloromethane	ND	0.415	3.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.429	13.0	NA		µg/L	4/18/2016 1:36 PM	PA/VA
1,2-Dibromoethane	ND	0.399	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Dibromomethane	ND	0.418	10.0	NA		µg/L	4/18/2016 1:36 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 10:36:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-03A	**Matrix:**	Groundwater
Client Sample ID:	MW-B	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.480	5.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
1,4-Dichlorobenzene	ND	0.452	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
1,1-Dichloroethane	ND	0.250	5.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
1,2-Dichloroethane	ND	0.231	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
1,1-Dichloroethene	ND	0.280	5.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.200	5.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.250	5.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
1,2-Dichloropropane	ND	0.200	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.231	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.292	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Ethylbenzene	ND	0.311	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
2-Hexanone	ND	3.12	50.0	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Iodomethane	ND	2.22	10.0	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Methylene chloride	ND	0.420	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
4-Methyl-2-pentanone	ND	3.15	100	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Styrene	ND	0.346	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.359	5.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.497	3.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Tetrachloroethene	ND	0.290	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Toluene	ND	0.250	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
1,1,1-Trichloroethane	ND	0.250	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
1,1,2-Trichloroethane	ND	0.307	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Trichloroethene	ND	0.270	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Trichlorofluoromethane	ND	0.223	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
1,2,3-Trichloropropane	ND	0.428	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Vinyl acetate	ND	0.288	50.0	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Vinyl chloride	ND	0.350	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
o-Xylene	ND	0.306	1.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
m,p-Xylene	ND	0.698	2.00	NA		µg/L	4/18/2016 1:36 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	88.1	NA	75.9-132	NA		%Rec	4/18/2016 1:36 PM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA		%Rec	4/18/2016 1:36 PM	
Surr: Dibromofluoromethane	100	NA	80.1-127	NA		%Rec	4/18/2016 1:36 PM	
Surr: Toluene-d8	98.4	NA	72.4-119	NA		%Rec	4/18/2016 1:36 PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: MD**	
Tetrahydrofuran	ND	12.5	50.0	NA		µg/L	4/18/2016 1:36 PM	
Surr: 1,2-Dichloroethane-d4	98.1	NA	80-120	NA		%Rec	4/18/2016 1:36 PM	
Surr: 4-Bromofluorobenzene	101	NA	80-120	NA		%Rec	4/18/2016 1:36 PM	

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 10:36:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-03A	**Matrix:**	Groundwater
Client Sample ID:	MW-B	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Surr: Dibromofluoromethane	100	NA	80-120	NA		%Rec	4/18/2016 1:36 PM	
Surr: Toluene-d8	97.6	NA	80-120	NA		%Rec	4/18/2016 1:36 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	133	1.4	7.0	NA		mg/L	4/15/2016 1:25 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 9:32:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-04A	**Matrix:**	Groundwater
Client Sample ID:	SW-1	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 5:25 PM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:25 PM	
Barium	0.0059	0.0010	0.100	NA	J	mg/L	4/22/2016 5:25 PM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 5:25 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 5:25 PM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:25 PM	
Cobalt	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:25 PM	
Copper	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:25 PM	
Lead	ND	0.0002	0.0100	NA		mg/L	4/22/2016 5:25 PM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/22/2016 5:25 PM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:25 PM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:25 PM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 5:25 PM	
Vanadium	ND	0.0010	0.0250	NA		mg/L	4/22/2016 5:25 PM	
Zinc	0.0175	0.0030	0.0100	NA		mg/L	4/22/2016 5:25 PM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	10.0	NA		µg/L	4/18/2016 2:10 PM	
Acetone	ND	5.00	100	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Acrylonitrile	ND	2.42	200	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Benzene	ND	0.250	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Bromochloromethane	ND	0.213	3.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Bromodichloromethane	ND	0.184	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Bromoform	ND	0.482	3.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Bromomethane	ND	0.420	10.0	NA		µg/L	4/18/2016 2:10 PM	PA/VA
2-Butanone	ND	4.74	100	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Carbon disulfide	ND	2.25	100	NA		µg/L	4/18/2016 2:10 PM	
Carbon tetrachloride	ND	0.166	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Chlorobenzene	ND	0.350	3.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Chloroethane	ND	0.270	10.0	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Chloroform	ND	0.400	5.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Chloromethane	ND	0.350	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Dibromochloromethane	ND	0.415	3.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.429	13.0	NA		µg/L	4/18/2016 2:10 PM	PA/VA
1,2-Dibromoethane	ND	0.399	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Dibromomethane	ND	0.418	10.0	NA		µg/L	4/18/2016 2:10 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 9:32:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-04A	**Matrix:**	Groundwater
Client Sample ID:	SW-1	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.480	5.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
1,4-Dichlorobenzene	ND	0.452	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
1,1-Dichloroethane	ND	0.250	5.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
1,2-Dichloroethane	ND	0.231	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
1,1-Dichloroethene	ND	0.280	5.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.200	5.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.250	5.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
1,2-Dichloropropane	ND	0.200	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.231	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.292	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Ethylbenzene	ND	0.311	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
2-Hexanone	ND	3.12	50.0	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Iodomethane	ND	2.22	10.0	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Methylene chloride	ND	0.420	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
4-Methyl-2-pentanone	ND	3.15	100	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Styrene	ND	0.346	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.359	5.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.497	3.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Tetrachloroethene	ND	0.290	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Toluene	ND	0.250	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
1,1,1-Trichloroethane	ND	0.250	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
1,1,2-Trichloroethane	ND	0.307	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Trichloroethene	ND	0.270	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Trichlorofluoromethane	ND	0.223	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
1,2,3-Trichloropropane	ND	0.428	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Vinyl acetate	ND	0.288	50.0	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Vinyl chloride	ND	0.350	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
o-Xylene	ND	0.306	1.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
m,p-Xylene	ND	0.698	2.00	NA		µg/L	4/18/2016 2:10 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	85.4	NA	75.9-132	NA		%Rec	4/18/2016 2:10 PM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA		%Rec	4/18/2016 2:10 PM	
Surr: Dibromofluoromethane	98.9	NA	80.1-127	NA		%Rec	4/18/2016 2:10 PM	
Surr: Toluene-d8	98.5	NA	72.4-119	NA		%Rec	4/18/2016 2:10 PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: MD**	
Tetrahydrofuran	ND	12.5	50.0	NA		µg/L	4/18/2016 2:10 PM	
Surr: 1,2-Dichloroethane-d4	95.0	NA	80-120	NA		%Rec	4/18/2016 2:10 PM	
Surr: 4-Bromofluorobenzene	98.4	NA	80-120	NA		%Rec	4/18/2016 2:10 PM	

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 9:32:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-04A	**Matrix:**	Groundwater
Client Sample ID:	SW-1	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Surr: Dibromofluoromethane	96.2	NA	80-120	NA		%Rec	4/18/2016 2:10 PM	
Surr: Toluene-d8	97.4	NA	80-120	NA		%Rec	4/18/2016 2:10 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	ND	1.0	5.0	NA		mg/L	4/15/2016 1:25 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 9:46:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-05A	**Matrix:**	Groundwater
Client Sample ID:	WSW-1	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020B**				**Analyst: BG**	
Antimony	ND	0.0002	0.0060	NA		mg/L	4/22/2016 5:31 PM	
Arsenic	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:31 PM	
Barium	0.0115	0.0010	0.100	NA	J	mg/L	4/22/2016 5:31 PM	
Beryllium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 5:31 PM	
Cadmium	ND	0.0002	0.0010	NA		mg/L	4/22/2016 5:31 PM	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:31 PM	
Cobalt	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:31 PM	
Copper	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:31 PM	
Lead	0.0003	0.0002	0.0100	NA	J	mg/L	4/22/2016 5:31 PM	
Nickel	ND	0.0020	0.0500	NA		mg/L	4/22/2016 5:31 PM	
Selenium	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:31 PM	
Silver	ND	0.0010	0.0100	NA		mg/L	4/22/2016 5:31 PM	
Thallium	ND	0.0002	0.0055	NA		mg/L	4/22/2016 5:31 PM	
Vanadium	ND	0.0010	0.0250	NA		mg/L	4/22/2016 5:31 PM	
Zinc	0.0090	0.0030	0.0100	NA	J	mg/L	4/22/2016 5:31 PM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	10.0	NA		µg/L	4/18/2016 2:44 PM	
Acetone	ND	5.00	100	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Acrylonitrile	ND	2.42	200	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Benzene	ND	0.250	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Bromochloromethane	ND	0.213	3.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Bromodichloromethane	ND	0.184	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Bromoform	ND	0.482	3.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Bromomethane	ND	0.420	10.0	NA		µg/L	4/18/2016 2:44 PM	PA/VA
2-Butanone	ND	4.74	100	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Carbon disulfide	ND	2.25	100	NA		µg/L	4/18/2016 2:44 PM	
Carbon tetrachloride	ND	0.166	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Chlorobenzene	ND	0.350	3.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Chloroethane	ND	0.270	10.0	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Chloroform	ND	0.400	5.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Chloromethane	ND	0.350	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Dibromochloromethane	ND	0.415	3.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.429	13.0	NA		µg/L	4/18/2016 2:44 PM	PA/VA
1,2-Dibromoethane	ND	0.399	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Dibromomethane	ND	0.418	10.0	NA		µg/L	4/18/2016 2:44 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 9:46:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-05A	**Matrix:**	Groundwater
Client Sample ID:	WSW-1	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichlorobenzene	ND	0.480	5.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
1,4-Dichlorobenzene	ND	0.452	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
1,1-Dichloroethane	ND	0.250	5.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
1,2-Dichloroethane	ND	0.231	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
1,1-Dichloroethene	ND	0.280	5.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.200	5.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.250	5.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
1,2-Dichloropropane	ND	0.200	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.231	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.292	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Ethylbenzene	ND	0.311	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
2-Hexanone	ND	3.12	50.0	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Iodomethane	ND	2.22	10.0	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Methylene chloride	ND	0.420	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
4-Methyl-2-pentanone	ND	3.15	100	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Styrene	ND	0.346	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.359	5.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.497	3.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Tetrachloroethene	ND	0.290	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Toluene	ND	0.250	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
1,1,1-Trichloroethane	ND	0.250	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
1,1,2-Trichloroethane	ND	0.307	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Trichloroethene	ND	0.270	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Trichlorofluoromethane	ND	0.223	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
1,2,3-Trichloropropane	ND	0.428	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Vinyl acetate	ND	0.288	50.0	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Vinyl chloride	ND	0.350	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
o-Xylene	ND	0.306	1.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
m,p-Xylene	ND	0.698	2.00	NA		µg/L	4/18/2016 2:44 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	90.0	NA	75.9-132	NA		%Rec	4/18/2016 2:44 PM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA		%Rec	4/18/2016 2:44 PM	
Surr: Dibromofluoromethane	98.7	NA	80.1-127	NA		%Rec	4/18/2016 2:44 PM	
Surr: Toluene-d8	98.1	NA	72.4-119	NA		%Rec	4/18/2016 2:44 PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: MD**	
Tetrahydrofuran	ND	12.5	50.0	NA		µg/L	4/18/2016 2:44 PM	
Surr: 1,2-Dichloroethane-d4	100	NA	80-120	NA		%Rec	4/18/2016 2:44 PM	
Surr: 4-Bromofluorobenzene	101	NA	80-120	NA		%Rec	4/18/2016 2:44 PM	

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 9:46:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-05A	**Matrix:**	Groundwater
Client Sample ID:	WSW-1	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Surr: Dibromofluoromethane	101	NA	80-120	NA		%Rec	4/18/2016 2:44 PM	
Surr: Toluene-d8	97.0	NA	80-120	NA		%Rec	4/18/2016 2:44 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	ND	1.0	5.0	NA		mg/L	4/15/2016 1:25 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:00:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-06A	**Matrix:**	Trip Blank
Client Sample ID:	TRIP BLANK	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: MD**	
trans-1,4-Dichloro-2-butene	ND	5.00	10.0	NA		µg/L	4/18/2016 3:18 PM	
Acetone	ND	5.00	100	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Acrylonitrile	ND	2.42	200	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Benzene	ND	0.250	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Bromochloromethane	ND	0.213	3.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Bromodichloromethane	ND	0.184	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Bromoform	ND	0.482	3.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Bromomethane	ND	0.420	10.0	NA		µg/L	4/18/2016 3:18 PM	PA/VA
2-Butanone	ND	4.74	100	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Carbon disulfide	ND	2.25	100	NA		µg/L	4/18/2016 3:18 PM	
Carbon tetrachloride	ND	0.166	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Chlorobenzene	ND	0.350	3.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Chloroethane	ND	0.270	10.0	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Chloroform	ND	0.400	5.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Chloromethane	ND	0.350	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Dibromochloromethane	ND	0.415	3.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.429	13.0	NA		µg/L	4/18/2016 3:18 PM	PA/VA
1,2-Dibromoethane	ND	0.399	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Dibromomethane	ND	0.418	10.0	NA		µg/L	4/18/2016 3:18 PM	PA/VA
1,2-Dichlorobenzene	ND	0.480	5.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
1,4-Dichlorobenzene	ND	0.452	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
1,1-Dichloroethane	ND	0.250	5.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
1,2-Dichloroethane	ND	0.231	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
1,1-Dichloroethene	ND	0.280	5.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.200	5.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.250	5.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
1,2-Dichloropropane	ND	0.200	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.231	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.292	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Ethylbenzene	ND	0.311	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
2-Hexanone	ND	3.12	50.0	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Iodomethane	ND	2.22	10.0	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Methylene chloride	ND	0.420	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
4-Methyl-2-pentanone	ND	3.15	100	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Styrene	ND	0.346	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.359	5.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 16041540

Date Reported: 5/2/2016

Client:	MACON COUNTY SOLID WASTE MANAGEMENT	**Collection Date:**	4/12/2016 12:00:00 AM
Project:	HIGHLANDS C&D - 1SA-2016	**Date Received:**	4/14/2016
Lab ID:	16041540-06A	**Matrix:**	Trip Blank
Client Sample ID:	TRIP BLANK	**Site ID:**	HIGHLANDS C & D

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,1,2,2-Tetrachloroethane	ND	0.497	3.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Tetrachloroethene	ND	0.290	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Toluene	ND	0.250	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
1,1,1-Trichloroethane	ND	0.250	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
1,1,2-Trichloroethane	ND	0.307	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Trichloroethene	ND	0.270	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Trichlorofluoromethane	ND	0.223	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
1,2,3-Trichloropropane	ND	0.428	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Vinyl acetate	ND	0.288	50.0	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Vinyl chloride	ND	0.350	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
o-Xylene	ND	0.306	1.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
m,p-Xylene	ND	0.698	2.00	NA		µg/L	4/18/2016 3:18 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	85.6	NA	75.9-132	NA		%Rec	4/18/2016 3:18 PM	
Surr: 4-Bromofluorobenzene	103	NA	73.6-132	NA		%Rec	4/18/2016 3:18 PM	
Surr: Dibromofluoromethane	97.0	NA	80.1-127	NA		%Rec	4/18/2016 3:18 PM	
Surr: Toluene-d8	98.9	NA	72.4-119	NA		%Rec	4/18/2016 3:18 PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: MD**	
Tetrahydrofuran	ND	12.5	50.0	NA		µg/L	4/18/2016 3:18 PM	
Surr: 1,2-Dichloroethane-d4	95.3	NA	80-120	NA		%Rec	4/18/2016 3:18 PM	
Surr: 4-Bromofluorobenzene	98.6	NA	80-120	NA		%Rec	4/18/2016 3:18 PM	
Surr: Dibromofluoromethane	98.9	NA	80-120	NA		%Rec	4/18/2016 3:18 PM	
Surr: Toluene-d8	98.0	NA	80-120	NA		%Rec	4/18/2016 3:18 PM	

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304)255-2500
Website: www.reiclabs.com

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

Sample Receipt Checklist

Client Name:	**MAC006**			Work Order Number:	**16041540**
RCPNo:	**1**	Date and Time Received:	**4/14/2016 10:49:59 AM**	Received by:	**Doug Arthur**
Completed By:	**Amanda Wilkins**		Reviewed By:		
Completed Date:	**4/14/2016 11:36:52 AM**		Reviewed Date:		

Carrier Name: REIC

1.	Chain of custody present?	Yes [x]	No [ ]	
2.	Chain of custody signed when relinquished and received?	Yes [x]	No [ ]	
3.	Are matrices correctly identified on Chain of custody?	Yes [x]	No [ ]	
4.	Is it clear what analyses were requested?	Yes [x]	No [ ]	
5.	Custody seals intact?	Yes [ ]	No [ ]	Not Present [x]
6.	Samples in proper container type and preservative?	Yes [x]	No [ ]	
7.	Were correct preservatives noted on COC?	Yes [x]	No [ ]	NA [ ]
8.	Sample containers intact?	Yes [x]	No [ ]	
9.	Sufficient sample volume for indicated test?	Yes [x]	No [ ]	
10.	Were container labels complete?	Yes [x]	No [ ]	
11.	All samples received within holding time?	Yes [x]	No [ ]	
12.	Was an attempt made to cool the samples?	Yes [x]	No [ ]	NA [ ]
13.	Sample Temp. taken and recorded upon receipt?	Yes [x]	No [ ]	To 1 ºC
14.	Water - Were bubbles absent in VOC vials?	Yes [x]	No [ ]	No Vials [ ]
15.	Are Samples considered acceptable?	Yes [x]	No [ ]	
16.	COC filled out properly?	Yes [x]	No [ ]	

Client Notification/Response

Client Name: **MAC006** Work Order Number: **16041540**

Comment:

Client Contacted: Yes [ ] No [ ] NA [x] Person Contacted:

Contact Mode: Phone [ ] Fax: [ ] Email: [ ] In Person: [ ]

Date Contacted: Contacted By:

Regarding:

Client Instructions:

Corrective Action:

CHAIN OF CUSTODY RECORD

REIC

Research Environmental & Industrial Consultants, Inc.

MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

MID-OHIO VALLEY Service Center	SHENANDOAH Service Center	ROANOKE Service Center	MORGANTOWN Service Center
101 17th Street	1557 Commerce Rd., Ste 201	3029-C Peters Creek Rd	16 Commerce Drive
Ashland, KY 41101	Verona, VA 24482	Roanoke, VA 24019	Westover, WV 26501
606-393-5027	540-248-0183	540-777-1276	304-241-5861

v11-0615 REIC use ONLY CLIENT ID MAC 006 DATE _____ SHEET 1 of 1

Client: Macon Co Dept Of SWM PO # _____
Contact Person Chris Stahl Phone 828-439-2100
Address 109 Sierra City Franklin State NC Zip 28734
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State Highlands C & D Proj ID 1st Semi 2016 Sampler RF/AM/RT/JB

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: [•] NORMAL — RUSH TURNAROUND*: [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: [ ] Email [ ] Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

ANALYSIS & METHOD REQUESTED: NC APPENDIX 1 VOC; NC APPENDIX 1 METALS; TSS; NC APPENDIX 1 VOC

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	#1	#2	#0	#0						
MW-A	2 P - 4 G	4-12-16 / 1007	G Water	Grab	X	X	X							
MW-A DUPLICATE	6 P - 12 G	4-12-16 / 1007	G Water	Grab	X	X	X							
MW-B	2 P - 4 G	4-12-16 / 1036	G Water	Grab	X	X	X							
SW-1	2 P - 4 G	4-12-16 / 0932	Liquid	Grab	X	X	X							
WSW-1	2 P - 4 G	4-12-16 / 0946	G Water	Grab	X	X	X							
TRIP BLANK	2 VOA		Liquid					X						
Corrected IR # 2														

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 Zinc Acetate *
* (Use blank for a preservative not listed.)

COMMENTS:
Use Test Group : MACON_NC_C&D_L

Analyze Dissolved Metals For Any Total Metal Detections.

Temperature at arrival: / °C ICED? Y X N___ Containers provided by: [X] REIC [ ] Client Delivered by: [ ] Client [X] REIC [ ] UPS [ ] FecEx [ ] USPS Other _____

1	Relinquished by (signature)	Date/Time 4-14-16 0900	2	Relinquished by (signature)	Date/Time	3	Relinquished by (signature)	Date/Time
	Received by (signature)	Date/Time 4-14-16 0900		Received by (signature)	Date/Time		Received by (signature)	Date/Time
4	Relinquished by (signature)	Date/Time	5	Relinquished by (signature)	Date/Time	6	Relinquished by (signature)	Date/Time
	Received by (signature)	Date/Time		Received by (signature)	Date/Time		Received by (signature)	Date/Time

Highlands Landfill

Macon County, North Carolina

Old Highlands Landfill Permit Number: 57-02
Highland C and D Landfill - Permit Number: 57-04

Appendix D:

Historical Analytical Laboratory Results

Highlands Landfill

Macon County, North Carolina

Old Highlands Landfill Permit Number: 57-02

Highland C and D Landfill - Permit Number: 57-04

Old Highlands Landfill

Historical Analytical Laboratory Results

MW-1

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Jun-1994	Oct-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002
1,4-Dichlorobenzene	1.4	1.0	*	*	*	*	*	*	*	*	*	*	*	*	3.2	3.2	3.6	4	2.6	4
2-Butonone (MEK)	4200	100	*	230	240	*	13	*	*	*	*	*	*	*	*	*	*	*	*	*
4-Methyl-2-pentanone	NL	100	*	*	*	30	*	22	*	*	*	*	*	*	*	*	*	*	*	*
Acetone	700	100	*	130	170	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benzene	1	1	*	6	5.9	*	*	*	*	*	*	5	4.4	*	3.5	3.6	3.2	4.1	2.5	3.3
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	3.2	3.7	4.4	*	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*	*	*	*	1.3	*	1	1	1.3
Chloroethane	2800	10	*	*	*	*	*	*	*	*	*	*	3.4	*	2.7	2	1.9	*	1.6	1.3
cis-1,2-Dichloroethene	70	5	*	200	140	40	39	*	*	*	15.4	17	28.2	3.6	10.4	4.1	7.4	5.2	2.6	*
Methylene Chloride	4.6	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Toluene	1000	1	*	19	19	13	9	*	*	*	*	*	7.7	*	2.4	3.7	1.9	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	37	*	*	*	*	*	*	*	*	*	*	*
Vinyl Chloride	0.015	1	*	120	110	85	*	24	*	49	12.7	82	25.2	7.4	21.1	15	13	13	9.8	12
Xylenes total	530	3	*	18	16	*	8	*	*	*	*	*	6.5	*	4.4	10	4	4.6	3.8	3.9
METALS	**NC 2L**	**SWSL**	**Jun-1994**	**Oct-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**
Barium	2000	100	329	130	136	134	127	284	141	130	122	110	137	128	136	150	180	160	170	160
Cadmium	1.75	1	*	*	*	*	*	*	*	*	*	*	*	*	1	*	3	*	*	*
Chromium	50	10	20	*	*	*	*	*	*	*	*	*	*	*	*	12	*	*	*	*
Cobalt	NL	10	*	188	175	165	146	129	127	*	113	100	104	89	94	87	89	81	75	74
Copper	1000	10	51	*	*	*	*	17	*	*	*	*	*	*	*	*	*	*	*	*
Lead	15	10	28	*	*	*	*	11	4	*	*	*	*	3	*	*	7.2	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	31	*	*	*	*	*	35	*	*	16	*
Selenium	50	10	*	*	*	*	*	*	*	*	*	*	14	9	11	*	16	8.9	*	15
Silver	17.5	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.7	*	*
Vanadium	NL	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Zinc	1050	10	73	25	19	11	26	61	*	45	104	*	*	*	*	13	32	57	16	24

NOTES:

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

MW-1

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011
1,4-Dichlorobenzene	1.4	1.0	*	*	5.8	5.7	*	*	5.5	5.8	3.9	3.7	3.8	3.3	3.2	4.7	6	1	4.3	5.5	5.9
2-Butonone (MEK)	4200	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4000	100	*	*	*
4-Methyl-2-pentanone	NL	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NL	100	*	*	*
Acetone	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6000	100	*	*	*
Benzene	1	1	*	*	*	3.4	3.7	3.5	3.7	5.8	*	*	3.6	2.2	3.4	3.7	1	1	3.0	3.1	2.9
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	5.6	5.5	4.9	4.6	4.5	*	50	3	3.0	*	4.0
Chloroethane	2800	10	*	*	*	*	*	*	*	*	*	*	*	1.2		*	3000	10	*	*	*
cis-1,2-Dichloroethene	70	5	7.4	7.3	*	*	*	*	*	*	*	*	*	*	*	*	70	5	*	*	*
Methylene Chloride	4.6	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5	1	*	*	*
Toluene	1000	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	600	1	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*	1.4	*	*	*	*	100	5	*	*	*
Vinyl Chloride	0.015	1	23	23	47	24.9	24.6	28.3	23.3	38	21.3	19.1	11.1	14	12.5	18.5	0.03	1	21.1	16.4	10.5
Xylenes total	530	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	500	5	*	*	*
METALS	**NC 2L**	**SWSL**	**Apr-2003**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**
Barium	2000	100	140	150	150	*	*	*	*	*	177	157	149	169	152	144	700	100	147	148	144
Cadmium	1.75	1	*	*	1.4	*	*	*	*	*	*	*	*	*	*	*	2	1	*	*	*
Chromium	50	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*
Cobalt	NL	10	72	76	65	59.3	62	48.7	61.6	41.6	56.4	38.8	42.6	52.2	46.9	46.6	NL	10	50.8	46.2	45.2
Copper	1000	10	6.2	*	*	*	*	*	*	*	*	*	*	*	*	*	1000	10	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15	10	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*
Selenium	50	10	13	13	*	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*
Silver	17.5	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*
Vanadium	NL	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NL	25	*	*	*
Zinc	1050	10	72	55	26	*	*	*	*	58.6	44.1	19.0	21.9	24.7	11.2	*	1000	10	17.2	29.2	14.6

NOTES:

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

MW-1

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-2011	Apr-2012	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
1,4-Dichlorobenzene	6	1	5.2	5.3	4.4	4.8	5.0	5.4	5.9	5.7	5.3	5.3
2-Butonone (MEK)	4000	100	*	*	*	*	*	*	*	*	*	*
4-Methyl-2-pentanone	NL	100	*	*	*	*	*	*	*	*	*	*
Acetone	6000	100	*	*	*	*	*	*	*	*	*	*
Benzene	1	1	**2.7**	**2.9**	**2.7**	**2.3**	**2.4**	**2.4**	**2.4**	**2.1**	**2.6**	**2.1**
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	*	4.2	3.9	5.0	*	3.5	4.1	5.3	5.6	6.0
Chloroethane	3000	10	*	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	*	*	*	*	*	*	*	*	*
Methylene Chloride	5	1	*	*	*	*	*	*	*	*	*	*
Toluene	600	1	*	*	*	*	*	*	*	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*	*
Vinyl Chloride	0.03	1	**11.2**	**10.8**	**7.9**	**7.2**	**12.2**	**9.6**	**8.7**	**7.7**	**8.5**	**9.3**
Xylenes total	500	5	*	*	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2011**	**Apr-2012**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Barium	700	100	161	135	155	126	138	141	140	133	133	129
Cadmium	2	1	*	*	*	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*	*	*	*
Cobalt	1	10	**43.3**	**39.1**	**43.0**	**36.6**	**38.3**	**35.8**	**35.8**	**32.5**	**32.1**	**30.8**
Copper	1000	10	*	*	*	*	*	*	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*	12.6	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*	*	*	*	*
Silver	20	10	*	*	*	*	*	*	*	*	*	*
Vanadium	0.3	25	*	*	*	*	*	*	*	*	*	*
Zinc	1000	10	23.4	15.7	19.1	14.9	*	12.9	12.2	*	13.6	*

NOTES:

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

MW-2

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Jun-1994	Oct-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002
1,1-Dichloroethane	70	5	*	5.8	5.9	*	*	*	*	*	*	*	*	*	*	*	1.1	1.5	1.5	*
1,4-Dichlorobenzene	1.4	1	*	*	*	*	*	*	*	*	*	*	2.1	3	2.7	2.9	2.6	2.8	2.4	2.5
2-Butanone (MEK)	4200	100	*	110	110	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Acetone	700	100	*	*	*	39	*	*	*	*	*	*	*	*	29.3	*	*	*	*	*
Benzene	1	1	*	5.5	5.3	*	*	*	*	*	*	3	2.8	2.6	2.2	2	2.2	2.2	4.6	1.6
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	9.5	13.4	*	*	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	1.1	1
Chloroethane	2800	10	*	*	*	*	*	*	*	*	*	*	7.2	5.6	7.5	6.4	16	11	5.5	6.5
Chloroform	70	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	310	65	170	110	*	*	*	44.8	39	31.6	26.6	25.3	18	26	26	19	18
Ethylbenzene	550	1	*	6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tetrachloroethene (PCE)	0.7	1	*	6.3	*	*	*	*	*	*	*	3	*	*	*	2.3	1.9	1.4	1.1	*
Toluene	1000	1	*	12	13	11	13	5	26	6	*	*	*	*	*	*	*	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*	*	*	*	*	1.2	*	*	*	*
Vinyl Chloride	0.015	1	*	49	40	66	81	18	34	23	19.5	63	23.9	24.3	15.7	12	22	15	13	12
Xylenes - Total	530	3	*	22	14	*	*	*	*	*	*	*	*	*	*	*	*	*	3.2	*
METALS	**NC 2L**	**SWSL**	**Jun-1994**	**Oct-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**
Barium	2000	100	408	*	100	112	*	182	*	*	76	67	78	71	75	81	82	79	*	*
Cadmium	1.75	1	2	*	*	*	*	*	1	6	*	*	*	*	*	*	*	*	*	*
Chromium	50	10	64	*	*	*	*	*	*	*	*	*	*	*	*	2.9	*	*	*	*
Cobalt	NL	10	*	38	41	27	24	21	22	*	*	*	*	*	*	11	12	*	*	*
Copper	1000	10	122	*	*	*	*	*	9	*	*	*	*	*	*	*	*	*	*	*
Lead	15	10	54	*	*	*	5	*	*	*	*	*	*	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*
Selenium	50	10	*	*	*	*	*	*	*	*	*	*	*	11	8	*	7	*	*	*
Zinc	1050	10	346	43	55	15	54	60	*	*	154	21	45	*	*	16	19	24	11	24

NOTES:

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

MW-2

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011
1,1-Dichloroethane	70	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7	5	*	*	*
1,4-Dichlorobenzene	1.4	1	*	*	*	*	*	*	*	*	1.2	1.2	1.1	1.0	*	1.5	6	1	1.4	1.4	1.1
2-Butanone (MEK)	4200	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4000	100	*	*	*
Acetone	700	100	43	26	*	*	*	*	*	*	*	*	*	*	*	*	6000	100	*	*	*
Benzene	1	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	1	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*	*	1.1	*	*	50	3	*	*	*
Chloroethane	2800	10	11	*	*	*	*	*	*	*	*	*	*	2.1	*	*	3000	10	*	*	*
Chloroform	70	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	70	5	*	*	*
cis-1,2-Dichloroethene	70	5	15	25	7.4	7.7	7.3	9.4	6.4	7.0	5.4	6.2		4.2	*	*	70	5	*	5.1	*
Ethylbenzene	550	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	600	1	*	*	*
Tetrachloroethene (PCE)	0.7	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.7	1	*	*	*
Toluene	1000	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	600	1	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	100	5	*	*	*
Vinyl Chloride	0.015	1	9.9	14	6.4	6.0	6.1	7.8	5.1	6.4	6.4	5.9	4.1	3.5	3.3	3.7	0.03	1	2.9	2.9	1.6
Xylenes - Total	530	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	500	5	*	*	*
METALS	**NC 2L**	**SWSL**	**Apr-2003**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**
Barium	2000	100	70	64	58	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*
Cadmium	1.75	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2	1	*	*	*
Chromium	50	10	*	*	*	*	*	*	*	10.7	*	*	*	*	*	*	10	10	*	*	*
Cobalt	NL	10	14	12	9.7	14.6	11.9	14.5	11.8	*	23.2	10.4	11.9	15.2	17.5	14.5	NL	10	12.7	15.9	15.5
Copper	1000	10	11	3	2.7	*	*	*	*	*	12.7	*	*	*	*	*	1000	10	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15	10	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*
Selenium	50	10	5.5	6.7	*	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*
Zinc	1050	10	35	15	11	*	*	*	*	*	74.8	32.8	20.4	37.7	15.6	19.7	1000	10	*	15.7	19.3

NOTES:

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

MW-2

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-2011	Apr-2012	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
1,1-Dichloroethane	7	5	*	*	*	*	*	1.2	1.1	*	*	*
1,4-Dichlorobenzene	6	1	1.4	*	*	*	*	*	*	*	*	1.1
2-Butanone (MEK)	4000	100	*	*	*	*	*	*	*	*	*	*
Acetone	6000	100	*	*	*	*	*	*	*	*	*	*
Benzene	1	1	*	*	*	*	*	*	*	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*
Chloroethane	3000	10	*	*	*	*	*	*	*	*	*	*
Chloroform	70	5	*	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	*	*	*	*	*	*	*	*	*
Ethylbenzene	600	1	*	*	*	*	*	*	*	*	*	*
Tetrachloroethene (PCE)	0.7	1	*	*	*	*	*	*	*	*	*	*
Toluene	600	1	*	*	*	*	*	*	1.4	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*	*
Vinyl Chloride	0.03	1	**1.8**	**1.5**	**1.6**	**1.4**	**1.8**	**1.6**	**1.4**	**1.0**	**1.2**	**1.3**
Xylenes - Total	500	5	*	*	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2011**	**Apr-2012**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Barium	700	100	*	*	*	*	*	*	*	*	*	*
Cadmium	2	1	*	*	*	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*	*	*	*
Cobalt	1	10	**14.0**	*	**14.1**	**12.0**	**16.1**	**14.6**	**13.7**	*	**10.5**	*
Copper	1000	10	*	*	*	*	*	*	10.6	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*	*	*	*	*
Zinc	1000	10	19.4	15.0	*	19.6	14.2	22.6	34.5	13.5	10.1	11.7

NOTES:

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

MW-4

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Oct-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003
1,4-Dichlorobenzene	1.4	10	*	*	*	*	*	*	*	*	*	*	*DRY*	*	*	*	1.8	*	*	*	*	*
2-Hexanone	NL	100	*	*	*	*	*	*	*	88	*	*	*DRY*	*	*	*	*	*	*	*	*	*
Benzene	1	1	*	*	*	*	*	*	*	*	*	*	*DRY*	*	*	*	1.8	*	*	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*DRY*	*	6.3	*	*	*	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*	*DRY*	*	*	*	1.8	*	*	*	*	*
cis-1,2-Dichloroethene	70	1	2.9	*	*	*	*	*	*	*	*	*	*DRY*	*	*	*	*	*	*	*	*	*
Vinyl Chloride	0.015	1	6.1	*	*	*	*	*	*	*	*	*	*DRY*	*	*	*	2.5	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-1993**	**Jun-1994**	**Oct-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**
Barium	2000	100	400	530	153	*	248	102	649	71	355	52	*DRY*	76	33	33	430	34	76	48	64	140
Beryllium	NL	1	*	*	*	*	*	*	*	*	*	*	*DRY*	*	*	*	5	*	*	*	*	1.2
Cadmium	1.75	1	1	*	*	*	*	*	*	1	*	*	*DRY*	*	*	*	*	*	*	*	*	*
Chromium	50	10	56	*	*	*	*	*	13	*	5	*	*DRY*	*	*	*	88	*	*	*	*	17
Cobalt	NL	10	130	*	*	*	15	11	*	*	*	*	*DRY*	*	*	*	80	*	*	*	*	6.4
Copper	1000	10	*	16	*	*	13	*	8	*	64	*	*DRY*	*	*	*	100	*	*	*	*	22
Lead	15	10	107	26	21	23	49	11	22	21	61	11	*DRY*	9	*	10	210	*	5.3	*	*	19
Nickel	100	50	*	*	*	*	*	*	*	*	38	*	*DRY*	*	*	*	130	*	*	*	*	14
Selenium	50	10	*	*	*	*	*	*	*	*	*	*	*DRY*	*	*	*	*	*	*	*	*	*
Thallium	NL	5	*	*	*	*	*	*	*	*	*	*	*DRY*	*	*	*	1.4	*	*	*	*	*
Vanadium	NL	20	50	*	*	*	*	*	*	*	*	*	*DRY*	*	*	*	52	*	*	*	*	22
Zinc	1050	10	170	34	19	16	45	15	166	*	57	*	*DRY*	32	*	*	140	*	31	*	11	32

NOTES:

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

MW-4

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
1,4-Dichlorobenzene	1.4	10	*	*	*	*	*	*	*	*	1.4	*	*	*	*	6	1	*	2.5	*	1.4	*
2-Hexanone	NL	100	*	*	*	*	*	*	*	*	*	*	*	*	*	NL	50	*	*	*	*	*
Benzene	1	1	*	*	*	*	*	*	*	*	1.7	*	*	*	*	1	1	*	1.5	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*	*	*	*	50	3	*	*	*	*	*
cis-1,2-Dichloroethene	70	1	*	*	*	*	*	*	*	*	*	*	*	*	*	70	5	*	*	*	*	*
Vinyl Chloride	0.015	1	*	*	*	*	1.0	*	*	*	1.7	*	*	*	*	0.03	1	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Barium	2000	100	49	190	*	*	*	*	*	*	242	*	104	*	*	700	100	130	241	*	185	*
Beryllium	NL	1	*	*	*	*	*	*	*	*	*	*	*	*	*	4	1	*	*	*	*	*
Cadmium	1.75	1	*	*	*	*	*	*	*	*	*	*	*	*	*	2	1	*	*	*	*	*
Chromium	50	10	*	*	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*	*
Cobalt	NL	10	*	14	*	11.4	18.8	16.5	*	13	35.5	*	*	*	*	1	10	*	32.0	*	*	*
Copper	1000	10	5.4	3.7	*	*	*	*	*	*	27.8	*	*	*	*	1000	10	*	*	*	*	*
Lead	15	10	5.1	7.8	*	*	*	*	*	10.7	75.5	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	10	5.6	*	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*	*	*
Thallium	NL	5	*	*	*	*	*	*	*	*	*	*	*	*	*	0.2	5.5	*	*	*	*	*
Vanadium	NL	20	*	*	*	*	*	*	*	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	10	*	*	*	*	*	*	*	*	70	*	*	*	*	1000	10	*	*	19.6	*	*

NOTES:

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

MW-4

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
1,4-Dichlorobenzene	6	1	*	*	1.3	*	*	*	*	*
2-Hexanone	NL	50	*	*	*	*	*	*	*	*
Benzene	1	1	*	*	*	*	*	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	*	*	*	*	*	*	*
Vinyl Chloride	0.03	1	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Barium	700	100	*	*	134	*	*	*	*	*
Beryllium	4	1	*	*	*	*	*	*	*	*
Cadmium	2	1	*	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*	*
Cobalt	1	10	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	11.0	*	*
Lead	15	10	*	*	*	*	*	**19.9**	**18.1**	11.3
Nickel	100	50	*	*	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*	*	*
Thallium	0.2	5.5	*	*	*	*	*	*	*	*
Vanadium	0.3	25	*	*	*	*	*	*	*	*
Zinc	1000	10	*	*	*	*	*	14.3	12.4	11.0

NOTES:

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

MW-4A

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Oct-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003
1,4-Dichlorobenzene	1.4	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.8	*	3.4	1.8	2.4	1.8	2.5	*
2-Butanone	4200	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*
Acetone	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	10.6	*	*	*	*	*	*
Benzene	1	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5	3.3	5.5	3.6	4.8	2.7	3.8	*
Carbon Disulfide	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.3	4.9	*	*	*	*	*	*
Chlorobenzene	50	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	1.4	1.8	1.4	1.9	*
Chloroethane	2800	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	6.9	28	9.4	12	2.9	4.7	14
Ethylbenzene	550	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.1	7.5	11	7.8	7.6	4.1	6.6	12
Toluene	1000	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.4	2.2	2.4	1.3	*	*	*	18
Vinyl Chloride	0.015	1.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24.3	8.8	16	14	12	6.3	10	15
Xylenes total	530	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	7.8	11	*	4.2	*	3.7	21.9
METALS	**NC 2L**	**SWSL**	**Oct-1993**	**Jun-1994**	**Oct-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**
Antimony	NL	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	4	*	*	*	*
Arsenic	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*
Barium	2000	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	251	253	250	230	260	250	220	280
Cadmium	1.75	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	1	*	*	*	*	*	*
Chromium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	5	12	*	*	*	*	*
Cobalt	NL	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	38	38	39	33	33	32	27	31
Lead	15	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	7.7	*	*	*	*
Nickel	100	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	45	*	*	*	*	5
Selenium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	15	*	12	14	*	24	12
Silver	17.5	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	3.5	*	*	*
Zinc	1050	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	15	22	26	14	26	*

NOTES:

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

MW-4A

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
1,4-Dichlorobenzene	1.4	1	*	*	*	*	*	*	*	3.4	4.1	4.0	3.6	3.1	NS	6	1	3.3	3.5	4.1	4.3	3.3
2-Butanone	4200	100	*	*	*	*	*	*	70.6	*	*	*	*	*	NS	4000	100	*	*	*	*	*
Acetone	700	100	*	*	*	*	*	*	*	*	*	*	*	*	NS	6000	100	*	*	*	*	*
Benzene	1	1	*	6.4	4.2	4.7	3.4	3.6	3.9	3.1	4.1	2.8	3.4	2.7	NS	1	1	2.4	3.1	2.3	2.8	2.3
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	NS	700	100	*	*	*	*	*
Chlorobenzene	50	3	*	6	*	*	7.2	5.8	*	11.6	5.0	24.6	5.7	23.0	NS	50	3	14.4	7.5	32.8	5.8	20.3
Chloroethane	2800	10	*	*	*	*	5.8	*	*	*	*	*	5.1	*	NS	3000	10	*	*	*	*	*
Ethylbenzene	550	1	9.8	12	8.1	7.0	7.3	5.9	*	4.6	7.3	5.2	4.8	3.8	NS	600	1	3.0	2.6	1.1	2.9	1.0
Toluene	1000	1	6.8	12	10.8	*	9.9	*	*	2.7	1.0	8.2	*	*	NS	600	1	*	*	*	*	*
Vinyl Chloride	0.015	1.0	8.2	21	11.9	11.6	11.7	11.0	15.1	13.5	13.4	10.9	8.1	10.2	NS	0.03	1	7.5	8.8	5.2	5.7	7.1
Xylenes total	530	3	5.4	5.1	5.7	*	*	*	*	*	1.7	4.2	*	*	NS	500	5	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Antimony	NL	6	*	*	*	*	*	*	*	*	*	*	*	*	NS	1	6	*	*	*	*	*
Arsenic	50	10	*	6.1	*	*	*	*	*	*	*	*	*	*	NS	10	10	*	*	*	*	*
Barium	2000	100	230	290	*	*	*	*	*	271	257	269	267	292	NS	700	100	335	284	308	266	308
Cadmium	1.75	1	*	1.2	*	*	*	*	*	*	*	*	*	*	NS	2	1	*	*	*	*	*
Chromium	50	10	2.6	*	*	*		*	*	*	*	*	*	*	NS	10	10	*	*	*	*	*
Cobalt	NL	10	23	23	18.1	16.8	14.0	13.8	13.6	15.1	13.4	11.2	12.5	11.9	NS	1	10	12.5	*	10.6	*	13.1
Lead	15	10	*	5	*	*	*	*	*	*	*	*	*	*	NS	15	10	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*	*	*	NS	100	50	*	*	*	*	*
Selenium	50	10	14	*	*	*	*	*	*	*	*	*	*	*	NS	20	10	*	*	*	*	*
Silver	17.5	10	*	*	*	*	*	*	*	*	*	*	*	*	NS	20	10	*	*	*	*	*
Zinc	1050	10	14	*	*	*	*	*	*	*	37.8	*	*	*	NS	1000	10	*	*	*	*	13.0

NOTES:

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

MW-4A

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
1,4-Dichlorobenzene	6	1	3.7	2.9	3.2	3.1	3.7	3.7	4.0	3.3
2-Butanone	4000	100	*	*	*	*	*	*	*	*
Acetone	6000	100	*	*	*	*	*	*	*	*
Benzene	1	1	**2.7**	**1.8**	**2.1**	**1.9**	**2.4**	**2.0**	**2.4**	**1.6**
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	7.5	21.6	10.5	14.6	5.9	8.2	4.4	13.0
Chloroethane	3000	10	*	*	*	*	*	*	*	*
Ethylbenzene	600	1	2.1	*	*	*	1.1	*	1.1	*
Toluene	600	1	*	*	*	*	*	*	*	*
Vinyl Chloride	0.03	1	**3.8**	**3.9**	**5.8**	**5.3**	**4.4**	**4.3**	**3.7**	**3.3**
Xylenes total	500	5	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Antimony	1	6	*	*	*	*	*	*	*	*
Arsenic	10	10	*	*	*	*	*	*	*	*
Barium	700	100	246	238	245	229	221	216	227	229
Cadmium	2	1	*	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*	*
Cobalt	1	10	*	**11.0**	**10.6**	**11.3**	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*	*	*
Silver	20	10	*	*	*	*	*	*	*	*
Zinc	1000	10	*	*	*	*	15.0	16.5	12.1	*

NOTES:

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

MW-5

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Oct-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002
1,1,1-Trichloroethane	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	*	*	*	*	*	*	*	*	*
1,2-Dichlorobenzene	24	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	DRY	*	*	*	*	*	*	*	*	*	*
1,4-Dichlorobenzene	1.4	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	2.3	*	*	*	*	1.5	*	1.1	*	*
Acetone	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	*	710	*	*	*	*	*	*	*
Benzene	1	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	*	5.4	*	*	*	*	1.2	*	*
Bromochloromethane	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	*	*	*	*	*	*	*	*	*
Carbon Disulfide	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	53	54	23.7	7.2	*	*	*	*	*
Chloromethane	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	388	430	*	188	199	84	70	170	46	77
Ethylbenzene	550	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	*	12.5	*	*	*	*	*	*	*
Toluene	1000	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	*	16	*	*	*	*	*	5.9	*
trans-1,2-Dichloroethene	100	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	*	*	*	4.1	2.2	*	1.3	*	*
Trichloroethene (TCE)	2.8	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	*	*	*	*	1.6	*	1	*	*
Vinyl Chloride	0.015	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	352	DRY	180	323	*	117	93.1	44	4.8	76	4.2	42
METALS	**NC 2L**	**SWSL**	**Oct-1993**	**Jun-1994**	**Oct-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**
Barium	2000	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	47	DRY	54	88	34	52	41	110	46	46	51	44
Cadmium	1.75	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	DRY	*	*	*	*	*	*	*	*	*	*
Chromium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	11	*	*	*	15	*	*	*	*
Cobalt	NL	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	43	DRY	*	*	*	*	*	12	*	*	*	*
Copper	1000	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	*	*	*	*	*	*	*	*	*
Lead	15	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	DRY	*	12	*	3	*	14	*	*	*	*
Nickel	100	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	*	*	*	*	17	*	*	*	*
Selenium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	*	7	*	*	*	*	*	*	*
Vanadium	NL	20	50	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	*	*	*	*	*	14	*	*	*	*
Zinc	1050	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	DRY	51	95	62	26	*	84	40	20	*	30

NOTES:

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

MW-5

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
1,1,1-Trichloroethane	N/A	N/A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	200	1	*	*	*	*	*
1,2-Dichlorobenzene	24	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20	5	*	*	*	*	*
1,4-Dichlorobenzene	1.4	1	*	*	*	*	*	*	*	*	2.5	*	*	*	*	1.2	6	1	2.0	*	1.4	1.3	2.2
Acetone	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6000	100	*	*	*	*	*
Benzene	1	1	*	*	*	*	1.0	*	*	*	1.2	*	*	*	*	*	1	1	*	*	*	*	*
Bromochloromethane	N/A	N/A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.6	3	*	*	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*
Chloromethane	N/A	N/A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3	1	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	230	200	130	112	114	103	68.9	61.4	78.8	32.2	47.0	32.0	36.0	58.4	70	5	104	54.0	58.6	28.8	60.8
Ethylbenzene	550	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	600	1	*	*	*	*	*
Toluene	1000	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	600	1	*	*	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	100	5	*	*	*	*	*
Trichloroethene (TCE)	2.8	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3	1	*	*	*	*	*
Vinyl Chloride	0.015	1	130	110	80	109	104	108	75.2	77.2	163	35.3	61.3	48.7	53.6	77.6	0.03	1	112	37.3	58.3	32.4	74.2
METALS	**NC 2L**	**SWSL**	**Apr-2003**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Barium	2000	100	*	32	34	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*
Cadmium	1.75	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2	1	*	*	*	*	*
Chromium	50	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*	*
Cobalt	NL	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	10	*	*	*	*	*
Copper	1000	10	5.1	2.6	*	*	*	*	*	*	*	*	*	*	*	*	1000	10	*	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	10	5.8	6.3	*	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*	*	*
Vanadium	NL	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	10	12	30	59	561	*	458	189	493	114	72	26.7	*	18.9	*	1000	10	41.3	*	*	*	*

NOTES:

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

MW-5

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
1,1,1-Trichloroethane	200	1	*	1.1	*	2.4	*	*	*	*
1,2-Dichlorobenzene	20	5	*	*	*	*	*	*	*	*
1,4-Dichlorobenzene	6	1	2.0	1.6	2.0	*	2.1	2.0	1.6	3.3
Acetone	6000	100	*	*	*	*	*	*	*	*
Benzene	1	1	*	*	*	*	*	*	*	*
Bromochloromethane	0.6	3	*	**22.9**	*	*	*	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*
Chloromethane	3	1	*	1.2	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	58.9	55.6	59.4	**74.1**	42.1	26.2	24.8	46.5
Ethylbenzene	600	1	*	*	*	*	*	*	*	*
Toluene	600	1	*	*	*	*	*	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*
Trichloroethene (TCE)	3	1	*	*	*	*	*	*	*	*
Vinyl Chloride	0.03	1	**72.8**	**67.8**	**92.9**	**95.6**	**52.3**	**47.2**	**41.1**	**68.4**
METALS	**NC 2L**	**SWSL**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Barium	700	100	*	*	*	*	*	*	*	*
Cadmium	2	1	*	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*	*
Cobalt	1	10	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*	*	*
Vanadium	0.3	25	*	*	*	*	*	*	*	*
Zinc	1000	10	*	*	*	*	*	*	*	*

NOTES:

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

MW-5A

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Oct-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002
1,4-Dichlorobenzene	1.4	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	1.1	*	*	*	*
cis-1,2-Dichloroethene	70	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	6.2	64	7.1	19.8	7.4	27	9.6	2.1	17	11
trans 1,2-Dichloroethene	100	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	154	55	*	*	*	*	*	*	*	*	*	*
Vinyl Chloride	0.015	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32	12	*	56	11.3	12.3	*	14	*	*	9.6	2
METALS	**NC 2L**	**SWSL**	**Oct-1993**	**Jun-1994**	**Oct-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**
Barium	2000	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	334	*	32	20	17	50	24	100	20	28	24	49
Beryllium	NL	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	*	*	*	*
Cadmium	1.75	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	5	*	*	*	*	*	*	*	*	*	*
Chromium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	19	*	2.2	*	*
Cobalt	NL	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19	*	*	*	*	*	*	15	*	*	*	*
Copper	1000	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	*	*	*	*
Lead	15	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11	*	*	*	4	6	*	11	*	*	*	5.2
Nickel	100	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	19	*	*	*	*
Selenium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	*	*	*	*
Vanadium	NL	20	50	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	17	*	*	*	*
Zinc	1050	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	49	*	50	*	*	37	18	21	*	27

NOTES:

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

MW-5A

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011
1,4-Dichlorobenzene	1.4	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6	1	*	*	*	*
cis-1,2-Dichloroethene	70	5	36	*	*	*	*	*	13.4	*	10	8.2	1.7	5.5	*	*	70	5	*	*	5.8	*
trans 1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	100	5	*	*	*	*
Vinyl Chloride	0.015	1	16	*	*	*	*	1.5	14.8	3.7	11	1.5	*	4.6	*	*	0.03	1	1.8	3.4	4.3	2.2
METALS	**NC 2L**	**SWSL**	**Apr-2003**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**
Barium	2000	100	230	10	*	*	*	*	*	*	*	*	*	*	6.5	*	700	100	*	*	*	*
Beryllium	NL	1	5	*	*	*	*	*	*	*	*	*	*	*	*	*	NL	1	*	*	*	*
Cadmium	1.75	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2	1	*	*	*	*
Chromium	50	10	38	16	*	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*
Cobalt	NL	10	45	*	*	*	*	*	*	*	*	*	*	*	*	*	NL	10	*	*	*	*
Copper	1000	10	57	*	*	*	*	*	*	*	*	*	*	*	*	*	1000	10	*	*	*	*
Lead	15	10	45	*	*	*	*	*	*	*	*	*	*	*	*	*	15	10	*	*	*	*
Nickel	100	50	37	5	*	*	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*	*
Selenium	50	10	6	*	*	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*	*
Vanadium	NL	20	44	*	*	*	*	*	*	*	*	*	*	*	*	*	NL	25	*	*	*	*
Zinc	1050	10	94	*	*	*	*	*	*	*	43.1	*	11.6	*	*	12.5	1000	10	*	*	14.5	11.0

NOTES:

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

MW-5A

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Apr-2012	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
1,4-Dichlorobenzene	6	1	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	*	7.2	*	*	*	*	*	5.2
trans 1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*
Vinyl Chloride	0.03	1	**1.5**	*	**5.4**	*	**2.1**	**1.4**	**1.4**	*	*
METALS	**NC 2L**	**SWSL**	**Apr-2012**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Barium	700	100	*	*	*	*	*	*	*	*	*
Beryllium	NL	1	*	*	*	*	*	*	*	*	*
Cadmium	2	1	*	*	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*	*	*
Cobalt	NL	10	*	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*	*	*	*
Vanadium	NL	25	*	*	*	*	*	*	*	*	*
Zinc	1000	10	*	*	*	*	*	*	*	*	*

NOTES:

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

MW-5B

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Oct-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003
1,1-Dichloroethane	70	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	1.8	*	*	*	*	*
1,4-Dichlorobenzene	1.4	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	1.8	*	*	*	*	*
Acetone	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*
Benzene	1	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	1	*	*	*	*
Carbon Disulfide	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11.3	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	146	100	150	79	52	55	110
Tetrachloroethene (PCE)	0.7	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	1.8	*	*	*	*	*
trans-1,2-Dichloroethene	100	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	1.7	*	*	*	*	*
Trichloroethene	2.8	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	1.3	*	*	*	*	*
Vinyl Chloride	0.015	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.1	8	33	3.4	3.3	*	8.4
METALS	**NC 2L**	**SWSL**	**Oct-1993**	**Jun-1994**	**Oct-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**
Antimony	1	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*
Arsenic	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	46
Barium	2000	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41	51	91	50	47	60	56
Beryllium	4	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		*	*	*	*	*	*
Cadmium	5	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	3	*	*	*	*
Chromium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	3.1	3.1	*	*	*	*
Copper	1000	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	14
Lead	15	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	5	*	*	*	9.1
Nickel	100	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	12
Selenium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	5.5	*	*	*	9.8
Zinc	2100	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	23	25	*	11	58

NOTES:

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

MW-5B

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012	Oct-2012
1,1-Dichloroethane	70	5	*	*	*	*	*	*	*	*	*	*	*	*	*	7	5	*	*	*	*	*	*
1,4-Dichlorobenzene	1.4	1	*	*	*	*	*	*	*	*	*	*	*	*	*	6	1	*	*	*	*	*	*
Acetone	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	6000	100	*	*	*	*	*	*
Benzene	1	1	*	*	*	*	*	*	*	*	*	*	*	*	*	1	1	*	*	*	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	68	120	70.2	49	*	42.6	50.6	40.9	34.5	33.5	27.4	27.2	302	70	5	28.8	*	34.2	28.6	15.7	24.3
Tetrachloroethene (PCE)	0.7	1	*	*	1.3	*	*	*	*	*	*	*	*	*	*	0.7	1	*	*	*	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*	*	*	*	*	100	5	*	*	*	*	*	*
Trichloroethene	2.8	1	*	*	*	*	*	*	1.0	*	*	*	*	*	*	3	1	*	*	*	*	*	*
Vinyl Chloride	0.015	1	7.6	13	5.7	4.2	4.8	4.1	4.6	4.9	5.0	*	4.2	5.2	5.4	0.03	1	4.5	5.6	5.0	5.6	6.4	4.6
METALS	**NC 2L**	**SWSL**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**	**Oct-2012**
Antimony	NL	6	6.9	*	*	*	*	*	*	*	*	*	*	*	*	NL	6	*	*	*	*	*	*
Arsenic	50	10	16	12	57.3	24.1	22.3	22.2	26.9	20.9	20.1	23.4	28.9	20.1	20.5	10	10	16.7	14.8	12.7	16.1	17.3	14.2
Barium	2000	100	*	18	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*	*
Beryllium	NL	1	*	*	4.7	3.2	2.5	*	*	*	*	*	*	*	*	NL	1	*	*	*	*	*	*
Cadmium	5	10	*	*	*	*	*	*	*	*	*	*	*	*	*	2	1	*	*	*	*	*	*
Chromium	50	10	*	*	21.9	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*	*	*
Copper	1000	10	*	*	11.2	*	*	*	*	*	*	*	*	*	*	1000	10	*	*	11.3	*	*	*
Lead	15	10	*	*	155	19.8	*	*	*	*	*	10.1	17.0	13.3	*	15	10	*	*	*	*	*	*
Nickel	100	50	5.5	*	57.2	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*	*	*	*
Selenium	50	10	*	*	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*	*	*	*
Zinc	2100	10	19	*	194	59	*	*	*	24	19.6	17.1	22.7	12.7	13.6	1000	10	18.7	16.1	11.9	18.7	23.1	15.7

NOTES:

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

MW-5B

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
1,1-Dichloroethane	7	5	*	*	*	*	*	*	*
1,4-Dichlorobenzene	6	1	*	*	*	*	*	*	*
Acetone	6000	100	*	*	*	*	*	*	*
Benzene	1	1	*	*	*	*	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	21.0	24.6	24.6	25.9	19.0	23.2	21.1
Tetrachloroethene (PCE)	0.7	1	*	*	*	*	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*
Trichloroethene	3	1	*	*	*	*	*	*	*
Vinyl Chloride	0.03	1	**3.9**	**6.8**	**5.5**	**9.2**	**7.0**	**8.4**	**7.7**
METALS	**NC 2L**	**SWSL**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Antimony	NL	6	*	*	*	*	*	*	*
Arsenic	10	10	**11.0**	**12.5**	**14.4**	*	**12.2**	*	**10.1**
Barium	700	100	*	*	*	112	*	*	*
Beryllium	NL	1	*	*	1.1	1.1	*	*	1.1
Cadmium	2	1	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	10.9	*	34.8
Lead	15	10	*	*	**18.2**	**20.7**	13.5	**15.5**	**16.2**
Nickel	100	50	*	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*	*
Zinc	1000	10	47.1	23.6	29.7	36.8	31.3	25.1	52.7

NOTES:

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

MW-5C

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Oct-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002
1,1-Dichloroethane	70	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	1.4	*	*	*
1,4-Dichlorobenzene	1.4	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	1.7	*	*	*	*
Benzene	1	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	1.5	*	1.2	2.8	1.7
Carbon Disulfide	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.8	*	*	*	*	*
Chloroethane	2800	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	2	*	*	*
cis-1,2-Dichloroethene	70	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	209	160	100	120	57	89
Tetrachloroethene (PCE)	0.7	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	1.4	*	*	*
Toluene	0.015	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	1	*	*	*	*
trans-1,2-Dichloroethene	100	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.4	2.2	*	*	*	*
Vinyl Chloride	0.02	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	46.2	51	3.9	29	17	22
METALS	**NC 2L**	**SWSL**	**Oct-1993**	**Jun-1994**	**Oct-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**
Arsenic	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	*	*	*	*	*
Barium	2000	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	86	86	54	60	33	53
Cadmium	1.75	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	*	*	*	*	*
Chromium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	40	2.4	*	*	*
Cobalt	NL	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*
Copper	1000	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	47	49	*	*	*	*
Lead	15	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	14	*	*	*	*
Nickel	100	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	55	*	*	*	*
Selenium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*
Zinc	1050	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	37	33	21	33	*	17

NOTES:

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

MW-5C

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011
1,1-Dichloroethane	70	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7	5	*	*	*	*
1,4-Dichlorobenzene	1.4	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6	1	*	*	*	*
Benzene	1	1	*	*	*	*	1.40	1.10	*	1.9	1.6	1.5	1.2	1.4	1.2	1.1	1	1	1	2.5	1.5	1.6
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*
Chloroethane	2800	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3000	10	*	*	*	*
cis-1,2-Dichloroethene	70	5	63	100	67	45	44.1	*	33.4	56.1	36	34.7	28.8	13.3	*	*	70	5	*	*	*	*
Tetrachloroethene (PCE)	0.7	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.7	1	*	*	*	*
Toluene	0.015	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	600	1	*	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	100	5	*	*	*	*
Vinyl Chloride	0.02	1	27	43	30	31.1	28.6	28.6	27.2	47.6	50.6	39.3	32.5	48.4	49.6	368	0.03	1	32.8	23.6	23.8	17.2
METALS	**NC 2L**	**SWSL**	**Apr-2003**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**
Arsenic	50	10	14	*	7.6	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*
Barium	2000	100	98	56	77	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*
Cadmium	1.75	1	*	*	1.2	*	*	*	*	*	*	*	*	*	*	*	2	1	*	*	*	*
Chromium	50	10	34	4.2	4.8	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*
Cobalt	NL	10	6.8	*	*	*	*	*	*	*	*	*	*	*	*	*	NL	10	*	*	*	*
Copper	1000	10	89	26	11	*	*	*	*	*	*	*	*	*	*	*	1000	10	*	*	*	*
Lead	15	10	29	6.4	8.7	*	*	*	*	*	*	*	*	*	*	*	15	10	*	*	*	*
Nickel	100	50	29	14	8.1	*	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*	*
Selenium	50	10	11	*	*	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*	*
Zinc	1050	10	62	22	16	*	*	*	*	*	14.4	13.2	15.9	12.4	12.4	18.9	1000	10	94.8	*	*	*

NOTES:

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

MW-5C

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Apr-2012	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
1,1-Dichloroethane	7	5	*	*	*	*	*	*	*	*	*
1,4-Dichlorobenzene	6	1	*	*	*	*	*	*	*	*	*
Benzene	1	1	**1.5**	**1.3**	**1.0**	**1.2**	*	**1.3**	*	**1.8**	**1.0**
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*
Chloroethane	3000	10	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	*	*	*	*	*	*	*	*
Tetrachloroethene (PCE)	0.7	1	*	*	*	*	*	*	*	*	*
Toluene	600	1	*	*	*	*	*	*	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*
Vinyl Chloride	0.03	1	**20.3**	**13.5**	**19.9**	**27.6**	**24.0**	**16.9**	**18.0**	**14.0**	**21.2**
METALS	**NC 2L**	**SWSL**	**Apr-2012**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Arsenic	10	10	*	*	*	*	*	*	*	*	*
Barium	700	100	*	101	*	*	141	*	*	*	*
Cadmium	2	1	*	*	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*	*	*
Cobalt	1	10	*	*	*	*	*	*	*	*	*
Copper	1000	10	11.5	28.5	*	*	16.0	*	*	*	*
Lead	15	10	*	12.9	*	*	**17.6**	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*	*	*	*
Zinc	1000	10	21.2	29.6	10.3	*	31.6	*	*	12.9	17.4

NOTES:

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

MW-6

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Oct-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003
Carbon Disulfide	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	2.6	6.8	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-1993**	**Jun-1994**	**Oct-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**
Antimony	NL	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	22	*	*	*	*	*	2	*	*	*	*
Barium	2000	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	2170	83	58	138	138	20	360	80	20	20	130
Beryllium	NL	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	9	9	*	*	*	*	*	*	*	*	*
Cadmium	1.75	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	2	*	*	*	*	*	*	4.2	*	*	*	*
Chromium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	315	10	*	18	*	*	50	8.3	*	*	16
Cobalt	NL	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	251	*	*	39	*	*	160	44	*	*	150
Copper	1000	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	325	*	*	18	*	*	35	*	*	*	39
Lead	15	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	5	7	*	*	*	*	*	8.9	*	*	*	*
Nickel	100	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	187	*	*	*	*	*	22	*	*	*	21
Vanadium	NL	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	752	25	*	40	*	*	110	18	*	*	38
Zinc	1050	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	664	32	76	70	*	*	140	49	*	18	52

NOTES:

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

MW-6

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012	Oct-2012
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**	**Oct-2012**
Antimony	NL	6	*	*	*	*	*	*	*	*	*	*	*	*	*	1	6	*	*	*	*	*	*
Barium	2000	100	29	81	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*	*
Beryllium	NL	1	*	*	*	*	*	*	*	*	*	*	*	*	*	4	1	*	*	*	*	*	*
Cadmium	1.75	1	*	*	*	*	*	*	*	*	*	*	*	*	*	2	1	*	*	*	*	*	*
Chromium	50	10	3.8	9.9	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*	*	*
Cobalt	NL	10	34	59	*	*	*	*	*	17.8	*	*	*	21.9	*	1	10	*	**30.7**	**16.3**	**15.8**	*	*
Copper	1000	10	3.1	15	*	*	*	*	*	*	*	*	*	*	*	1000	10	*	*	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*	*	15	10	*	*	*	*	*	*
Nickel	100	50	*	12	*	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*	*	*	*
Vanadium	NL	20	*	20	*	*	*	*	*	*	*	*	*	*	*	0.3	25	*	*	*	*	*	*
Zinc	1050	10	40	27	*	*	160	*	*	26.7	*	*	*	14.2	*	1000	10	*	18.8	22.3	15.0	*	*

NOTES:

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

MW-6

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
Carbon Disulfide	700	100	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Antimony	1	6	*	*	*	*	*	*	*
Barium	700	100	*	*	*	*	*	*	*
Beryllium	4	1	*	*	*	*	*	*	*
Cadmium	2	1	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*
Cobalt	1	10	*	*	*	*	**13.1**	*	*
Copper	1000	10	*	*	*	*	15.8	*	*
Lead	15	10	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*
Vanadium	0.3	25	*	*	*	*	*	*	*
Zinc	1000	10	12.2	14.4	*	*	20.9	*	*

NOTES:

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

MW-6A

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

METALS	NC 2L	SWSL	Oct-1993	Jun-1994	Oct-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003
Arsenic	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	*	*	*	*	5.7
Barium	2000	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	139	286	601	440	239	296	293	130	210	99	110	160	970
Beryllium	NL	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	7	8	*	*	*	*	2	*	*	*	19
Cadmium	1.75	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	1	*	*	*	*	1	*	2.1	*	*	*	*
Chromium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	109	76	18	46	45	27	36	16	18	27	260
Cobalt	NL	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11	*	61	42	*	26	24	11	19	*	*	14	79
Copper	1000	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	133	85	24	58	55	21	36	21	20	35	370
Lead	15	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	7	30	23	10	19	17	7.4	13	*	5.6	7.7	79
Nickel	100	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	24	47	29	*	*	13	17	*	*	*	*	100
Selenium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	7.6	5	*	*	12
Vanadium	NL	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	362	268	64	145	147	62	100	43	57	77	790
Zinc	1050	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	156	104	50	68	63	28	46	37	24	34	250

NOTES:

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

MW-6A

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

METALS	NC 2L	SWSL	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Arsenic	50	10	*	6.4	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*	*
Barium	2000	100	190	440	997	*	*	*	*	358	*	*	*	380	*	700	100	182	12.2	267	*	*
Beryllium	NL	1	*	*	9.3	*	*	*	*	2.1	*	*	*	2.9	*	4	1	1.5	*	2.1	*	*
Cadmium	1.75	1	*	1.9	*	*	*	*	*	*	*	*	*	*	*	2	1	*	*	*	*	*
Chromium	50	10	*	82	174	*	*	*	*	*	*	*	*	22.8	*	10	10	11.4	*	22.1	*	*
Cobalt	NL	10	7.8	30	70.8	*	*	*	*	13.6	*	*	*	21.9	*	1	10	10.1	*	12.5	*	*
Copper	1000	10	10	120	*	*	*	*	*	19.9	*	*	*	45.2	*	1000	10	21.3	*	32.5	*	*
Lead	15	10	5.8	36	56.9	*	*	*	*	10.3	*	*	*	19	*	15	10	*	*	11.2	*	*
Nickel	100	50	*	35	58.5	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	10	*	*	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*	*	*
Vanadium	NL	20	14	260	516	*	*	*	*	*	*	*	*	93.7	*	0.3	25	43.1	*	65.2	*	*
Zinc	1050	10	*	91	179	*	*	*	*	75.8	29.8	*	*	38.6	18.1	1000	10	25.4	*	29.8	*	*

NOTES:

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

MW-6A

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

METALS	NC 2L	SWSL	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
Arsenic	10	10	*	*	*	*	*	*	*	*
Barium	700	100	*	132	*	*	*	238	*	102
Beryllium	4	1	*	1.2	*	1.0	*	2.3	*	1.2
Cadmium	2	1	*	*	*	*	*	*	*	*
Chromium	10	10	*	**14.8**	*	**13.3**	*	**26.2**	*	**13.5**
Cobalt	1	10	*	*	*	*	*	**11.8**	*	*
Copper	1000	10	*	21.8	*	20.0	16.7	46.6	*	20.3
Lead	15	10	*	*	*	*	*	15.0	*	*
Nickel	100	50	*	*	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*	*	*
Vanadium	0.3	25	*	**44.3**	*	**41.5**	**32.3**	**86.6**	*	43.0
Zinc	1000	10	*	32.5	*	17.3	32.2	37.5	*	22.6

NOTES:

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

MW-6C

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Dec-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003
2-Butanone (MEK)	4200	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	17
Acetone	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	15.4	*	*	*	*	*	*
Benzene	1	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	2.6	2.1	*	*	*	1.4	*
Carbon Disulfide	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	10.2	*	*	*	*	*	*
Chloroform	70	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.7	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-1993**	**Jun-1994**	**Dec-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**
Antimony	NL	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	2	*	*	*	*
Arsenic	10	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*
Barium	2000	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	114	67	38	29	20	16	14	50
Chromium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	44	25	14	15	8	11	*	12
Cobalt	NL	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	5.2
Copper	1000	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	29	*	*	*	*	*	*	31
Lead	15	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	5	*	*	*	*
Nickel	100	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	11	*	*	*	*	24
Selenium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	17	*	*
Vanadium	NL	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	145	21	33	37	37	45	39	54
Zinc	1050	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	68	21	19	37	31	16	25	10

NOTES:

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

MW-6C

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
2-Butanone (MEK)	4200	100	*	*	*	*	*	*	*	*	*	*	*	*	*	4000	100	*	*	*	*	*
Acetone	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	6000	100	*	*	*	*	*
Benzene	1	1	*	*	*	*	*	*	*	*	*	*	*	*	*	1	1	*	*	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*
Chloroform	70	5	*	*	*	*	*	*	*	*	*	*	*	*	*	70	5	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Antimony	NL	6	*	*	*	*	*	*	*	*	*	*	*	*	*	1	6	*	*	*	*	*
Arsenic	10	10	*	8.1	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*	*
Barium	2000	100	8.7	17	*	*	*	*	*	*	*	*	*	*	*	0.7	1	*	*	*	*	*
Chromium	50	10	7.5	4.3	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*	*
Cobalt	NL	10	*	*	*	*	*	*	*	*	*	*	*	*	*	1	10	*	*	*	*	*
Copper	1000	10	7.3	10	*	*	*	*	*	*	*	*	*	*	*	1000	10	15.0	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	10	5.6	*	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*	*	*
Vanadium	NL	20	26	43	*	*	*	*	*	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	10	*	*	*	*	*	*	*	16.6	12.4	*	*	*	*	1000	10	*	10.6	*	*	*

NOTES:

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

MW-6C

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
2-Butanone (MEK)	4000	100	*	*	*	*	*	*	*	*
Acetone	6000	100	*	*	*	*	*	*	*	*
Benzene	1	1	*	*	*	*	*	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*
Chloroform	70	5	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Antimony	1	6	*	*	*	*	*	*	*	*
Arsenic	10	10	*	*	*	*	*	*	*	*
Barium	0.7	1	*	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*	*
Cobalt	1	10	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*	*	*
Vanadium	0.3	25	*	*	*	*	*	*	*	*
Zinc	1000	10	*	12.5	34.1	11.6	*	*	*	25.1

NOTES:

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

MW-7

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Dec-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002
1,1-Dichloroethane	700	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	13.4	*	1.2	*	*	*
1,2-Dichloropropane	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		*	*	*	*	*	*
1,4-Dichlorobenzene	1.4	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	13.5	12	12	10	*	17
2-Butanone (MEK)	4200	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	1180	940	480	*	*	1600
2-Hexanone	NL	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		*	*	*	*	*	*
4-Methyl-2-pentanone	NL	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	41.4	*	*	*	*	*
Acetone	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	988	513	540	170	520	*	680
Benzene	1	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	3.6	*	2.9	7.2	*	6.7
Carbon Disulfide	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	6.2	*	*	*	*	*
Chlorobenzene	50	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*
Chloroethane	2800	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50	*	8.6	10	*	*	12
Chloromethane	2.6	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	1.4	5.8	*	*
cis-1,2-Dichloroethene	70	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2140	2240	1500	1300	3700	3100	2400
Ethylbenzene	550	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	56	42.5	57	31	32	*	40
Methylene Chloride	4.6	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	18.6	63	*	42	*	*
Tetrachloroethene (PCE)	0.7	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	2.2	*	*	*	*	*
Toluene	1000	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	93.6	110	70	150	*	140
trans-1,2-Dichloroethene	100	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	42	16	4	*	*	6.2
Trichloroethene (TCE)	2.8	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	2.6	*	*	*	*	*
Vinyl Chloride	0.015	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	64	72.8	54	90	120	120	510
Xylenes total	530	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	42	48.2	85	38	64	*	77

NOTES:

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

MW-7

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011
1,1-Dichloroethane	700	5	5.2	*	*	*	*	*	*	*	*	*	*	1.3		*	7	5	*	*	*	*
1,2-Dichloropropane	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.6	1	*	*	*	*
1,4-Dichlorobenzene	1.4	1	*	12	*	12.9	13.3	13.3	12.0	10.0	9.9	11.2	*	9.2	7.6	9.5	6	5	9.1	10.7	8.3	9.7
2-Butanone (MEK)	4200	100	6800	1600	*	1200	494	817	*	*	*	*	*	*	127	105	4000	100	*	*	*	*
2-Hexanone	NL	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NL	50	*	*	*	*
4-Methyl-2-pentanone	NL	100	150	89	*	66.5	*	61.4	*	*	*	*	*	*	*	*	NL	100	*	*	*	*
Acetone	700	100	3100	1100	*	281	194	*	189	*	240	*	*	*	*	*	6000	100	*	*	*	*
Benzene	1	1	6.2	5.4	*	4.2	4.7	5.7	5.0	5.1	6.5	5.2	*	4.7	5.2	5.1	1	1	4.5	4.5	4.5	3.5
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*	*	1.3		*	50	3	*	*	*	*
Chloroethane	2800	10	26	17	*	*	*	7.3	*	*	*	*	*	*	*	*	3000	10	*	*	*	*
Chloromethane	2.6	1	*	*	*	*	*	*	*	*	*	2.2	*	*	*	*	3	1	*	*	*	*
cis-1,2-Dichloroethene	70	5	8400	3200	2200	1650	472	1790	592	*	*	*	818	44.7	67.3	*	70	5	15.3	22.6	5.4	20.4
Ethylbenzene	550	1	38	38	*	25.2	28.2	*	27	33.7	30.5	35	33.1	25.1	24.1	28	600	1	26.3	23.8	31.3	23.3
Methylene Chloride	4.6	1	36	18	*	*	*	9.6	*	*	3.5	*	*	*	*	*	5	1	*	*	*	*
Tetrachloroethene (PCE)	0.7	1	*	*	*	*	*	1.3	*	*	*	*	*	*	*	*	0.7	1	*	*	*	*
Toluene	1000	1	170	130	*	86.2	89.7	130	152	252	141	150	101	110	50.5	40.7	600	1	38.9	70.7	35.0	23.5
trans-1,2-Dichloroethene	100	5	*	6.4	*	*	*	*	*	*	*	*	*	*	*	*	100	5	*	*	*	*
Trichloroethene (TCE)	2.8	1	*	*	*	*	*	1.3	*	*	*	*	*	*	*	*	3	1	*	*	*	*
Vinyl Chloride	0.015	1	190	300	980	1140	831	1520	1970	212	1950	*	806	932	686	476	0.03	1	205	541	176	118
Xylenes total	530	3	91	72	*	57.6	52.3	23.4	79.6	69.8	74.2	69.1	73.2	64.3	49.8	32	500	5	60.7	48.5	59.6	44.8

NOTES:

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

MW-7

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Apr-2012	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
1,1-Dichloroethane	7	5	*	*	*	*	*	*	*	*	*
1,2-Dichloropropane	0.6	1	*	**1.2**	*	*	*	*	*	*	*
1,4-Dichlorobenzene	6	5	**11.7**	**13.0**	**9.5**	**12.0**	**8.3**	**8.2**	**12.0**	**8.4**	**8.8**
2-Butanone (MEK)	4000	100	*	*	*	*	*	*	*	*	*
2-Hexanone	40	50	*	*	*	*	*	*	*	*	*
4-Methyl-2-pentanone	NL	100	*	*	*	*	*	*	*	*	*
Acetone	6000	100	*	*	*	*	*	*	*	*	*
Benzene	1	1	**4.7**	**5.0**	**4.0**	**4.8**	**4.0**	**2.6**	**3.9**	**3.4**	**3.4**
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	4.1	5.5	3.9	4.4	*	*	7.7	*	6.4
Chloroethane	3000	10	*	*	*	*	*	*	*	*	*
Chloromethane	3	1	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	6.5	*	5.3	*	9.1	*	*	*	17.2
Ethylbenzene	600	1	22.3	17.3	17.5	19.6	17.9	21.7	15.6	15.0	18.4
Methylene Chloride	5	1	*	*	*	*	*	*	*	*	*
Tetrachloroethene (PCE)	0.7	1	*	*	*	*	*	*	*	*	*
Toluene	600	1	43.3	47.8	31.9	54.8	36.4	8.0	32.4	9.5	20.8
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*
Trichloroethene (TCE)	3	1	*	*	*	*	*	*	*	*	*
Vinyl Chloride	0.03	1	**385**	**372**	**388**	**469**	**225**	**83.0**	**218**	**31.9**	**51.9**
Xylenes total	500	5	45.8	36.6	38.1	44.6	35.5	15.5	32.7	13.0	30.7

NOTES:

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

MW-7

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

METALS	NC 2L	SWSL	Oct-1993	Jun-1994	Dec-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002
Antimony	NL	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	2	*	*	*
Arsenic	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	5	*	*	*	*
Barium	2000	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	402	295	660	240	450	260	420
Beryllium	NL	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	8	8	*	*	*
Cadmium	1.75	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	3	*	3.2	3.5	*	*
Chromium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14	11	52	2.2	*	*	*
Cobalt	NL	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	472	447	360	220	880	350	670
Copper	1000	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11	10	65	*	16	*	*
Lead	15	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	38	23	180	12	10	9.3	12
Nickel	100	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	14	100	*	*	30	*
Selenium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	27	18	5	18	35	21	36
Silver	18	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	6.4	*	*
Thallium	NL	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	4	*	2.1	*	*
Vanadium	NL	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	31	*	*	*	*
Zinc	1050	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	109	440	73	180	43	34

NOTES:

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

MW-7

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

METALS	NC 2L	SWSL	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011
Antimony	NL	6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NL	6	*	*	*	*
Arsenic	50	10	7.8	*	6.1	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*
Barium	2000	100	580	7.4	170	*	*	*	*	1340	246	205	273	183	166	192	700	100	188	212	151	220
Beryllium	NL	1	1.1	*	*	*	*	*	*	11	*	1.1	*	*	*	*	NL	1	*	1.3	*	1.7
Cadmium	1.75	1	*	*	2.1	*	*	*	*	*	*	*	*	*	*	*	2	1	*	*	*	*
Chromium	50	10	2	*	*	*	*	*	*	69.4	*	*	*	*	*	*	10	10	*	*	*	*
Cobalt	NL	10	950	*	180	295	252	437	281	200	331	58.6	263	89.3	96.3	74.4	NL	10	66.0	68.2	61.5	73.9
Copper	1000	10	4.6	*	*	*	*	*	*	*	*	*	*	*	*	*	1000	10	*	10.8	*	10.5
Lead	15	10	21	*	7.7	*	*	*	*	51.1	*	12.5	*	17.6	*	*	15	10	*	19.9	*	24.6
Nickel	100	50	28	*	*	*	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*	*
Selenium	50	10	23	5.2	*	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*	*
Silver	18	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*	*
Thallium	NL	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NL	5.5	*	*	*	*
Vanadium	NL	20	*	*	*	*	*	*	*	40.1	*	*	*	*	*	*	NL	25	*	*	*	*
Zinc	1050	10	65	*	25	*	*	*	*	950	35.8	135	11.7	92.8	*	*	1000	10	*	172	13.8	215

NOTES:

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

MW-7

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

METALS	NC 2L	SWSL	Apr-2012	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
Antimony	1	6	*	*	*	*	*	*	*	*	*
Arsenic	10	10	*	*	*	*	*	*	*	*	*
Barium	700	100	114	125	*	119	122	167	107	315	132
Beryllium	4	1	*	*	*	*	*	1.3	*	**5.0**	*
Cadmium	2	1	*	*	*	*	*	*	*	1.4	*
Chromium	10	10	*	*	*	*	*	*	*	**18.3**	*
Cobalt	1	10	**40.6**	**53.7**	**36.6**	**42.0**	**37.0**	**43.2**	**41.0**	**70.7**	**39.3**
Copper	1000	10	*	*	*	*	*	14.0	*	42.0	*
Lead	15	10	*	*	*	*	*	**26.0**	*	**107**	*
Nickel	100	50	*	*	*	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*	*	*	*
Silver	20	10	*	*	*	*	*	*	*	*	*
Thallium	0.2	5.5	*	*	*	*	*	*	*	*	*
Vanadium	0.3	25	*	*	*	*	*	*	*	*	*
Zinc	1000	10	34.4	58.8	*	43.7	17.6	114	*	301	17.3

NOTES:

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

MW-8

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Dec-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003
1,4-Dichlorobenzene	1.4	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	N/A	N/A	*
2-Butanone (MEK)	4200	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	52.3	*	*	*	N/A	N/A	*
Acetone	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	34.4	*	*	*	N/A	N/A	*
METALS	**NC 2L**	**SWSL**	**Oct-1993**	**Jun-1994**	**Dec-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**
Barium	2000	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	913	242	1400	860	510	N/A	N/A	60
Beryllium	NL	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	13	7	3.3	N/A	N/A	*
Cadmium	1.75	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	3.7	*	N/A	N/A	*
Chromium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	10	73	28	12	N/A	N/A	4
Cobalt	NL	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	58	*	78	57	32	N/A	N/A	*
Copper	1000	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	55	22	200	93	60	N/A	N/A	16
Lead	15	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	38	13	13	54	20	N/A	N/A	*
Nickel	100	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	*	100	23	*	N/A	N/A	6.4
Selenium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	5.3	*	8.3	N/A	N/A	*
Vanadium	NL	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	33	25	130	85	36	N/A	N/A	13
Zinc	1050	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52	54	170	98	48	N/A	N/A	17

NOTES:

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

MW-8

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012	Oct-2012
1,4-Dichlorobenzene	1.4	1	*	*	*	*	*	*	*	*	*	*	*	*	*	6	1	*	*	*	*	*	*
2-Butanone (MEK)	4200	100	*	*	*	*	*	*	*	*	*	*	*	*	*	4000	100	*	*	*	*	*	*
Acetone	700	100	*	*	*	*	*	*	*	*	*	*	*	*	*	6000	100	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**	**Oct-2012**
Barium	2000	100	110	260	*	*	*	*	*	506	178	123	436	320	143	700	100	*	145	128	*	*	*
Beryllium	NL	1	*	*	*	*	*	*	*	1.6	*	*	1.8	1.2	*	4	1	*	*	*	*	*	*
Cadmium	1.75	1	*	*	*	*	*	*	*	*	*	*	*	*	*	2	1	*	*	*	*	*	*
Chromium	50	10	*	6	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*	*	*
Cobalt	NL	10	5	14	20.5	*	*	*	19.5	22.5	*	*	21.2	12	*	1	10	*	*	*	*	*	*
Copper	1000	10	5.7	20	*	*	*	*	*	11.1	*	*	16.1	10.8	*	1000	10	*	*	10.8	*	*	*
Lead	15	10	7.1	13	15.4	*	*	*	16.0	18.2	*	*	19.8	14.3	*	15	10	*	*	*	*	*	*
Nickel	100	50	*	10	*	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*	*	*	*
Selenium	50	10	*	*	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*	*	*	*
Vanadium	NL	20	5.7	20	*	*	*	*	*	*	*	*	*	*	*	0.3	25	*	*	*	*	*	*
Zinc	1050	10	*	24	*	*	*	*	*	27.6	12.4	*	20.0	18.7	*	1000	10	*	*	21.0	*	*	*

NOTES:

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

MW-8

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
1,4-Dichlorobenzene	6	1	*	*	1.0	*	*	*	*
2-Butanone (MEK)	4000	100	*	*	*	*	*	*	*
Acetone	6000	100	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Barium	700	100	*	*	*	*	*	*	111
Beryllium	4	1	*	*	*	*	*	*	*
Cadmium	2	1	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*
Cobalt	1	10	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	12.5	11.7	*
Lead	15	10	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*	*
Vanadium	0.3	25	*	*	*	*	*	*	*
Zinc	1000	10	*	10.3	*	*	10.0	*	10.7

NOTES:

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

Spring A

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Dec-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	Oct-1996	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001
Carbon Disulfide	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.3	*	DRY	*	*
cis-1,2-Dichloroethene	70	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	175	94.6	DRY	48	42
Ethylbenzene	550	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	DRY	*	*
trans-1,2-Dichloroethene	100	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	2.5	DRY	*	*
Vinyl Chloride	0.015	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.2	13.6	DRY	8.5	12
METALS	**NC 2L**	**SWSL**	**Oct-1993**	**Jun-1994**	**Dec-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**Oct-1996**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**
Barium	2000	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	14	DRY	21	22
Cobalt	NL	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	DRY	*	*
Selenium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	DRY	*	7.4
Zinc	1050	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31	23	DRY	18	17

VOCs	NC 2L	SWSL	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	NS	NS	*	NS	*	*	700	100
cis-1,2-Dichloroethene	70	5	350	650	160	16.9	*	14.1	24.4	24.4	17.4	NS	NS	46.6	NS	13.7	*	70	5
Ethylbenzene	550	1	8.5	*	*	*	*	*	*	*	*	NS	NS	*	NS	*	*	600	1
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*	NS	NS	*	NS	*	*	100	5
Vinyl Chloride	0.015	1	34	36	*	11.9	*	9.3	20.5	20.5	11.9	NS	NS	10.4	NS	*	3.9	0.03	1
METALS	**NC 2L**	**SWSL**	**Apr-2003**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**
Barium	2000	100	17	21	16	*	*	*	*	*	*	NS	NS	*	NS	*	*	700	100
Cobalt	NL	10	6.4	12	5.3	*	*	*	*	*	*	NS	NS	*	NS	*	*	NL	10
Selenium	50	10	*	*	*	*	*	*	*	*	*	NS	NS	*	NS	*	*	20	10
Zinc	1050	10	*	*	*	*	*	*	*	*	11.9	NS	NS	*	NS	10.6	*	1000	10

NOTES:

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

Spring A

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
Carbon Disulfide	700	100	*	NS	*	NS	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	5.9	NS	5.7	NS	*	*	*	5.2	*	*	*	*	*
Ethylbenzene	600	1	*	NS	*	NS	*	*	*	*	*	*	*	*	*
trans-1,2-Dichloroethene	100	5	*	NS	*	NS	*	*	*	*	*	*	*	*	*
Vinyl Chloride	0.03	1	**5.3**	NS	**5.3**	NS	*	*	1.3	5.2	*	*	*	*	1.3
METALS	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Barium	700	100	*	NS	*	NS	*	*	*	*	*	*	*	*	*
Cobalt	1	10	*	NS	*	NS	*	*	*	*	*	*	*	*	*
Selenium	20	10	*	NS	*	NS	*	*	*	*	*	*	*	*	*
Zinc	1000	10	*	NS	*	NS	*	*	*	*	*	*	*	*	*

NOTES:

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

Spring B

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Jun-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2003	Oct-2003
Carbon Disulfide	700	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1	*	*	*	*	*	*
Chloromethane	2.6	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*
Methylene choride	4.6	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-1993**	**Jun-1994**	**Jun-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2003**	**Oct-2003**
Barium	2000	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25	18	160	69	33	20	18
Beryllium	NL	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	4	*	*	*	*
Chromium	50	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	29	6.4	2.4	3.6	*
Cobalt	NL	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	23	*	*	*	*
Copper	1000	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	14	*	*	*	*
Lead	15	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	14	6.2	*	*	*
Nickel	100	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	26	*	*	*	*
Vanadium	NL	25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	32	*	*	*	*
Zinc	1050	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	62	23	14	*	*

VOCs	NC 2L	SWSL	Apr-2004	Dec-2004	Dec-2004	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Apr-2010	Oct-2010	Apr-2011	Apr-2012
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*
Chloromethane	2.6	1	*	*	*	*	*	*	*	*	*	*	*	*	3	1	*	*	*	*	*
Methylene choride	4.6	100	*	*	*	*	*	*	*	1.1	*	*	*	*	5	1	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Apr-2004**	**Dec-2004**	**Dec-2004**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Apr-2012**
Barium	2000	100	20	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*
Beryllium	NL	1	*	*	*	*	*	*	*	*	*	*	*	*	4	1	*	*	*	*	*
Chromium	50	10	*	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*	*
Cobalt	NL	10	*	*	*	*	*	*	*	*	*	*	*	*	1	10	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	*	*	*	*	*	*	*	1000	10	*	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*	*	*
Vanadium	NL	25	*	*	*	*	*	*	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	10	*	*	*	*	*	*	*	11.1	*	*	12.5	*	1000	10	*	*	*	*	*

NOTES:

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

Spring B

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*
Chloromethane	3	1	*	*	*	*	*	*	*	*
Methylene choride	5	1	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Barium	700	100	*	*	*	*	*	*	*	*
Beryllium	4	1	*	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*	*
Cobalt	1	10	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*
Vanadium	0.3	25	*	*	*	*	*	*	*	*
Zinc	1000	10	*	*	*	*	*	*	*	*

NOTES:

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

Chastain Spring

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Dec-1994	Mar-1995	Mar-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002
2-Butanone	4200	100	*	*	*	*	*	*	*	*	*	*	DRY	*	*	*	*	*	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	DRY	3.6	*	*	*	*	*	*	*
Toluene	1000	1	*	*	*	*	*	*	*	*	*	*	DRY	*	*	*	*	*	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	*	*	*	DRY	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-1993**	**Jun-1994**	**Dec-1994**	**Mar-1995**	**Mar-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**
Barium	2000	100	*	*	*	*	*	*	123	*	*	*	DRY	*	*	*	6	4.9	3.9	32	6
Cadmium	1.75	1	1	*	*	*	*	*	*	5	1	*	DRY	*	*	*	*	*	*	*	*
Chromium	50	10	*	*	*	*	*	*	*	*	*	*	DRY	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	*	*	*	*	*	DRY	*	*	*	*	*	*	*	*
Zinc	1050	10	*	*	*	*	*	*	*	*	*	*	DRY	29	*	*	*	*	12	11	*

VOCs	NC 2L	SWSL	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Dec-2004	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011
2-Butanone	4200	100	*	11	*	*	*	*	*	NS	*	*	*	NS	*	*	4000	100	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*	*	NS	*	*	*	NS	*	*	700	100	*	*	*
Toluene	1000	1	*	*	*	*	*	*	*	NS	*	*	*	NS	*	*	600	1	*	*	*
trans-1,2-Dichloroethene	100	5	*	*	*	*	*	*	*	NS	*	*	*	NS	*	*	100	5	*	*	*
METALS	**NC 2L**	**SWSL**	**Apr-2003**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Dec-2004**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**
Barium	2000	100	8.4	27	16	*	*	*	*	NS	*	*	*	NS	*	*	700	100	*	*	*
Cadmium	1.75	1	*	*	*	*	*	*	*	NS	*	*	*	NS	*	*	2	1	*	*	*
Chromium	50	10	2.5	2.8	*	*	*	*	*	NS	*	*	*	NS	*	*	10	10	*	*	*
Copper	1000	10	*	56	3.6	*	*	*	*	NS	*	*	*	NS	*	*	1000	10	*	*	*
Zinc	1050	10	*	25	11	*	*	*	50.6	NS	*	22.4	*	NS	*	*	1000	10	*	*	*

NOTES:

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

Chastain Spring

Historical Analytical Results
Macon County Old Highlands Landfill
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VOCs	NC 2L	SWSL	Oct-2011	Apr-2012	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
2-Butanone	4000	100	NS	*	*	*	*	*	*	*	*	*
Carbon Disulfide	700	100	NS	*	*	*	*	*	*	*	*	*
Toluene	600	1	NS	*	*	*	*	*	*	*	*	*
trans-1,2-Dichloroethene	100	5	NS	*	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2011**	**Apr-2012**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Barium	700	100	NS	*	*	*	*	*	*	*	*	*
Cadmium	2	1	NS	*	*	*	*	*	*	*	*	*
Chromium	10	10	NS	*	*	*	*	*	*	*	*	*
Copper	1000	10	NS	*	*	*	*	*	*	*	*	*
Zinc	1000	10	NS	*	*	*	11.2	*	*	*	*	*

NOTES:

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

Chastain Well

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

METALS	NC 2L	SWSL	Jun-1994	Dec-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002
Barium	2000	100	*	172	*	*	*	*	NS	NS	*	*	*	*	*	160	7	6.5	6.6	6.7
Copper	1000	10	*	170	*	*	*	*	NS	NS	98	116	82	81	113	390	170	170	680	900
Lead	15	10	*	*	*	*	*	*	NS	NS	*	*	*	*	*	*	*	*	*	*
Zinc	1050	10	*	*	*	*	*	*	NS	NS	36	*	*	*	57	26	130	40	20	17

METALS	NC 2L	SWSL	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010
Barium	2000	100	7	5.63	6.7	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*
Copper	1000	10	62	89	89	*	286	*	285	293	22.0	17.8	316	400	198	219	1000	10	291	239
Lead	15	10	*	*	*	*	*	*	*	*	23.3	*	*	*	*	*	15	10	*	*
Zinc	1050	10	*	*	*	*	*	*	*	*	21.4	18.3	*	*	19	*	1000	10	19.9	16.2

METALS	NC 2L	SWSL	Apr-2011	Oct-2011	Apr-2012	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
Barium	700	100	*	*	*	*	*	*	*	*	*	*	*
Copper	1000	10	106	240	250	909	198	150	5200	430	2300	193	190
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*
Zinc	1000	10	*	20.1	19.7	17.4	13.1	13.6	52.3	32.3	48.1	13.2	14.9

NOTES:

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

McCall Well

Historical Analytical Results
Macon County Old Highlands Landfill
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METALS	NC 2L	SWSL	Oct-1993	Jun-1994	Dec-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002
Barium	2000	100	*	*	*	*	*	*	49	*	*	*	*	*	*	*	7	7	7.7	7.1
Cadmium	1.75	1	*	*	*	*	*	*	*	3	*	*	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	2020	*	*	*	315	*	52	*	*	47	20	11	18	16	*	*
Lead	15	10	*	*	*	*	*	*	*	3	6	*	*	*	*	*	*	*	*	*
Zinc	1050	10	*	*	*	*	*	*	443	*	*	*	*	57	38	26	18	14	14	12

METALS	NC 2L	SWSL	Oct-2002	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010
Barium	2000	100	8.7	7.4	10	7.5	*	*	*	*	*	*	*	*	*	*	*	700	100	*
Cadmium	1.75	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2	1	*
Copper	1000	10	15	76	*	12	*	*	*	*	*	27.9	26.5	62.6	17.6	36.7	30.8	1000	10	44.6
Lead	15	10	*	7.8	*	*	*	*	*	*	*	*	*	*	*	*	*	15	10	*
Zinc	1050	10	12	20	12	13	*	*	123	*	*	37.7	84.0	97.3	54.5	25.0	28.5	1000	10	58.8

METALS	NC 2L	SWSL	Oct-2010	Apr-2011	Oct-2011	Apr-2012	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
Barium	700	100	*	*	*	*	*	*	*	*	*	*	*	*
Cadmium	2	1	*	*	*	*	*	*	*	*	*	*	*	*
Copper	1000	10	*	69.7	16.5	50.2	28.9	116	38.5	44.4	64.3	19.1	68.8	44.4
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*
Zinc	1000	10	29.4	45.6	59.5	79.4	37.1	74.7	43.6	37.0	14.5	*	16.5	10.6

NOTES:

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

Hicks Well

Historical Analytical Results
Macon County Old Highlands Landfill
Permit No. 57-02

VOCs	NC 2L	SWSL	Oct-1993	Jun-1994	Dec-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002
Acetone	700	100	NS	NS	NS	NS	NS	NS	NS	*	47	*	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-1993**	**Jun-1994**	**Dec-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**
Barium	2000	100	NS	NS	NS	NS	NS	NS	NS	*	*	11	11	14	*	*	15	13	14	17
Lead	15	10	NS	NS	NS	NS	NS	NS	NS	*	*	*	*	*	*	*	*	*	13	*
Nickel	100	50	NS	NS	NS	NS	NS	NS	NS	*	34	47	*	*	*	*	*	*	*	*
Zinc	1050	10	NS	NS	NS	NS	NS	NS	NS	*	29	28	*	22	*	*	61	*	*	*

VOCs	NC 2L	SWSL	Oct-2002	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010
Acetone	700	100	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	6000	100	NS	NS
METALS	**NC 2L**	**SWSL**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**
Barium	2000	100	16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	700	100	NS	NS
Lead	15	10	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	15	10	NS	NS
Nickel	100	50	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	100	50	NS	NS
Zinc	1050	10	13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1000	10	NS	NS

VOCs	NC 2L	SWSL	Apr-2011	Oct-2011	Apr-2012	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
Acetone	6000	100	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
METALS	**NC 2L**	**SWSL**	**Apr-2011**	**Oct-2011**	**Apr-2012**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Barium	700	100	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	15	10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	100	50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	1000	10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

NOTES:

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

Highlands C&D Landfill
Historical Analytical Laboratory Results

MW-A

Historical Analytical Results
Macon County Highlands C and D Landfill
Permit No. 57-04

VOCs	NC 2L	SWSL	Oct-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	3.8	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	6.3	5.6	*	*	*	*	*	5.2	*	3.4	*	*	*	2.7	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**
Barium	2000	100	*	*	*	*	122	*	*	12	13	14	14	15	17	15	17	17	22	15	7.7
Cadmium	1.75	1	*	*	*	*	*	2	*	3	*	*	*	*	*	*	*	*	*	*	*
Chromium	50	10	*	*	*	*	*	*	*	*	6	*	*	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	*	*	*	*	*	*	*	*	61	*	*	*	*	*
Lead	15	10	*	*	*	*	*	12	3	*	*	*	*	*	*	*	*	*	*	*	*
Thallium	NL	5	*	*	*	*	*	*	14	*	*	*	*	*	*	*	*	*	*	*	*
Vanadium	NL	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Zinc	1050	10	11	12	*	20	40	*	*	36	*	*	*	*	*	120	50	*	14	*	*

VOCs	NC 2L	SWSL	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	*	*	*	*	*	*	*	*	*	*	*	70	5	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Barium	2000	100	13	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*
Cadmium	1.75	1	*	*	*	*	*	*	*	*	*	*	*	*	2	1	*	*	*	*	*
Chromium	50	10	*	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	*	*	*	*	*	*	*	1000	10	*	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	*	15	10	*	*	*	*	*
Thallium	NL	5	*	*	*	*	*	*	*	*	*	*	*	*	0.2	5.5	*	*	*	*	*
Vanadium	NL	20	*	*	*	*	*	*	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	10	*	*	*	*	*	*	19.7	22.7	12.2	*	*	*	1000	10	*	*	11.3	*	*

NOTES:

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

MW-A

Historical Analytical Results
Macon County Highlands C and D Landfill
Permit No. 57-04

VOCs	NC 2L	SWSL	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Barium	700	100	*	*	*	*	*	*	*	*
Cadmium	2	1	*	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*	*
Cobalt	1000	10	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*
Thallium	0.2	5.5	*	*	*	*	*	*	*	*
Vanadium	0.3	25	*	*	*	*	*	*	*	*
Zinc	1000	10	*	*	15.8	*	*	*	*	37.7

NOTES:

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

MW-B

Historical Analytical Results
Macon County Highlands C and D Landfill
Permit No. 57-04

VOCs	NC 2L	SWSL	Oct-1994	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	7.1	26.7	*	*	*	*	*	*	*	*	*
Chloroethane	2800	10	*	*	*	*	*	*	*	*	*	*	*	*	2.4	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-1994**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Arsenic	50	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.6
Barium	2000	100	*	*	*	*	172	*	*	20	23	20	20	19	26	18	20	17	22	13	15	18
Cadmium	1.75	1	*	*	*	*	*	1	*	3	2	*	*	*	*	*	*	*	*	*	*	*
Chromium	50	10	*	*	*	*	*	*	*	*	11	*	*	*	2.2	*	*	*	*	*	*	*
Cobalt	NL	10	*	*	*	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	11	*	*	*	12	*	*	*	*	*	*	*	*	2.7	2.1	*
Lead	15	10	*	*	*	5	*	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Selenium	50	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11	*	*	5.2	*
Vanadium	NL	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Zinc	1050	10	*	16	*	21	46	*	*	23	*	67	*	*	20	*	19	28	*	11	*	*

VOCs	NC 2L	SWSL	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012	Oct-2012	Apr-2013
Carbon Disulfide	700	100	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*	*	*
Chloroethane	2800	10	*	*	*	*	*	*	*	*	*	*	*	3000	10	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**	**Oct-2012**	**Apr-2013**
Arsenic	50	10	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*	*	*	*
Barium	2000	100	*	*	*	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*	*	*
Cadmium	1.75	1	*	*	*	*	*	*	*	*	*	*	*	2	1	*	*	*	*	*	*	*
Chromium	50	10	*	*	*	*	*	*	*	*	*	*	*	10	10	*	*	*	*	*	*	*
Cobalt	NL	10	*	*	*	*	*	*	*	*	*	*	*	1	10	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	*	*	*	*	*	*	1000	10	*	*	*	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*	*	*	*	15	10	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*	*	100	50	*	*	*	*	*	*	*
Selenium	50	10	*	*	*	*	*	*	*	*	*	*	*	20	10	*	*	*	*	*	*	*
Vanadium	NL	20	*	*	*	*	*	*	*	*	*	*	*	0.3	25	*	*	*	*	*	*	*
Zinc	1050	10	*	*	*	*	*	69.8	43.2	11.1	*	*	*	1000	10	*	20.2	*	12.2	*	*	10.3

NOTES:

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

MW-B

Historical Analytical Results
Macon County Highlands C and D Landfill
Permit No. 57-04

VOCs	NC 2L	SWSL	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
Benzene	1	1	*	*	*	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	*
Chloroethane	3000	10	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**	**Oct-2015**	**Apr-2016**
Arsenic	10	10	*	*	*	*	*	*
Barium	700	100	*	*	*	*	*	*
Cadmium	2	1	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*
Cobalt	1	10	*	11.3	18.7	16.7	18.6	14.7
Copper	1000	10	*	*	*	*	11.6	11.0
Lead	15	10	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*
Vanadium	0.3	25	*	*	*	*	*	*
Zinc	1000	10	11.3	*	*	*	11.0	13.8

NOTES:

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

SW-1

Historical Analytical Results
Macon County Highlands C and D Landfill
Permit No. 57-04

METALS	NC 2L	SWSL	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	Apr-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009
Barium	2000	100	13	38	16	17	19	14	100	8	11	*	*	*	*	*	*	*	NS	*	*
Chromium	50	10	*	13	*	*	*	*	7.6	*	*	*	*	*	*	*	*	*	NS	*	*
Cobalt	NL	10	*	13	*	12	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*
Copper	1000	10	*	*	*	*	*	*	6.6	*	*	*	*	*	*	*	*	*	NS	*	*
Lead	15	10	*	*	*	*	*	*	8.6	*	*	*	*	*	*	*	*	*	NS	*	*
Nickel	100	50	*	27	*	*	*	*	5.5	*	*	*	*	*	*	*	*	*	NS	*	*
Selenium	50	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS	*	*
Vanadium	NL	20	*	*	*	*	*	*	7.9	*	*	*	*	*	*	*	*	*	NS	*	*
Zinc	1050	10	*	11	*	*	23	46	19	*	*	*	*	*	*	*	*	*	NS	14.8	20.1

METALS	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015	Oct-2015	Apr-2016
Barium	700	100	*	NS	*	NS	*	*	*	NS	*	*	*	*	*
Chromium	10	10	*	NS	*	NS	*	*	*	NS	*	*	*	*	*
Cobalt	1	10	*	NS	*	NS	*	*	*	NS	*	*	*	*	*
Copper	1000	10	*	NS	*	NS	*	*	*	NS	*	*	*	*	*
Lead	15	10	*	NS	*	NS	*	*	*	NS	*	*	*	*	*
Nickel	100	50	*	NS	*	NS	*	*	*	NS	*	*	*	*	*
Selenium	20	10	*	NS	*	NS	*	*	*	NS	*	*	*	*	*
Vanadium	0.3	25	*	NS	*	NS	*	*	*	NS	*	*	*	*	*
Zinc	1000	10	*	NS	*	NS	*	14.3	13.4	NS	12.8	14.6	*	17.1	17.5

NOTES:

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

WSW-1

Historical Analytical Results
Macon County Highlands C and D Landfill
Permit No. 57-04

VOCs	NC 2L	SWSL	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	Apr-1998	Oct-1998	Apr-1999	Oct-1999	May-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005
1,2-Dichloroethane	0.38	1	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tetrachloroethene	0.7	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**Apr-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**May-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**
Antimony	NL	6	*	*	*	*	152	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	*	*	42	*	*	*	*	*	*	*	13	12	12	16	14	9.7	7.8	11	*	*	*
Cadmium	5	1	*	*	*	2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3	20	280	*	*	*
Lead	15	10	*	*	*	4	*	*	*	*	*	*	*	*	*	*	*	*	*	19	*	*	*
Nickel	100	50	*	*	*	*	30	*	*	*	*	*	*	*	*	*	*	*	*	5.1	*	207	*
Zinc	1050	10	*	*	87	*	*	*	*	*	*	*	10	16	*	*	*	*	11	180	*	*	*

VOCs	NC 2L	SWSL	Apr-2006	Oct-2006	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012	Oct-2012	Apr-2013	Oct-2013	Apr-2014	Oct-2014	Apr-2015
1,2-Dichloroethane	0.38	1	*	*	*	*	*	*	*	*	7	5	*	*	*	*	*	*	*	*	*	*	*
Tetrachloroethene	0.7	1	*	*	*	*	*	*	1.9	*	0.7	1	*	*	*	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Apr-2006**	**Oct-2006**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**	**Oct-2012**	**Apr-2013**	**Oct-2013**	**Apr-2014**	**Oct-2014**	**Apr-2015**
Antimony	NL	6	*	*	*	*	*	*	*	*	1	6	*	*	*	*	*	*	*	*	*	*	*
Barium	2000	100	*	*	*	*	*	*	*	*	700	100	*	*	*	*	*	*	*	*	*	*	*
Cadmium	5	1	*	*	*	*	*	*	*	*	2	1	*	*	*	*	*	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	*	*	*	1000	10	*	*	*	19.6	22.0	*	*	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*	15	10	*	*	*	*	*	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	100	50	*	*	*	*	*	*	*	*	*	*	*
Zinc	1050	10	*	*	15.5	22	17	*	12.9	10.1	1000	10	32.4	*	16.4	*	*	*	10.8	*	*	*	*

VOCs	NC 2L	SWSL	Oct-2015	Apr-2016
1,2-Dichloroethane	7	5	*	*
Tetrachloroethene	0.7	1	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2015**	**Apr-2016**
Antimony	1	6	*	*
Barium	700	100	*	*
Cadmium	2	1	*	*
Copper	1000	10	*	*
Lead	15	10	*	*
Nickel	100	50	*	*
Zinc	1000	10	*	*

NOTES:

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

Highlands Landfill

Macon County, North Carolina

Old Highlands Landfill Permit Number: 57-02

Highland C and D Landfill - Permit Number: 57-04

Appendix E:

Statistical Analysis

Old Highlands Landfill

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
Apr-09	0.005	0.152	0.0005	0.0005	0.005	0.0469	0.005	0.005	0.025	0.005	0.010	0.0112
Oct-09	0.005	0.143	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.005
Apr-10	0.005	0.050	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.005
Oct-10	0.005	0.145	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.0125	0.005
Apr-11	0.005	0.128	0.0005	0.0005	0.005	0.005	0.0108	0.005	0.025	0.005	0.0125	0.0210
Oct-11	0.005	0.050	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.0125	0.005
Apr-12	0.005	0.050	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.0125	0.005
Oct-12	0.005	0.050	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.0125	0.005
Apr-13	0.005	0.050	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.0125	0.005
Oct-13	0.005	0.050	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.0125	0.005
Apr-14	0.005	0.050	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.0125	0.005
Oct-14	0.005	0.050	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.0125	0.005
Apr-15	0.005	0.050	0.0005	0.0005	0.005	0.005	0.0125	0.005	0.025	0.005	0.0125	0.0100
Oct-15	0.005	0.050	0.0005	0.0005	0.005	0.005	0.0117	0.005	0.025	0.005	0.0125	0.005
Apr-16	0.005	0.111	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.0125	0.0107
SWSL	0.010	0.100	0.001	0.001	0.010	0.010	0.010	0.010	0.050	0.010	0.025	0.010
# Obs.	32	32	32	32	32	32	32	32	32	32	32	32
# NDs	32	27	28	31	27	22	26	22	31	32	30	21
% NDs	100%	84%	88%	97%	84%	69%	81%	69%	97%	100%	94%	66%
Method	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Nonparametric
Prediction Limit	**0.010**	**1.40**	**0.013**	**0.0037**	**0.073**	**0.078**	**0.200**	**0.054**	**0.100**	**0.010**	**0.130**	**0.170**
2L Std	0.010	0.7	0.004	0.002	0.010	0.001	1.0	0.015	0.100	0.020	0.0003	1.0

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