WATER QUALITY MONITORING REPORT

FIRST SEMI-ANNUAL 2013 SAMPLING EVENT

Closed Henderson County Landfill, Permit No. 45-01

Henderson County, North Carolina

Submitted To:

Henderson County Solid Waste Division
191 Transfer Station Drive
Hendersonville, NC 28791

Submitted By: Golder Associates NC, Inc.
5B Oak Branch Drive
Greensboro, NC 27407

July 2013 **0839-650612.100**

A world of capabilities delivered locally

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation

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):

Golder Associates NC, Inc. on behalf of Henderson County

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

Name: David Y. Reedy II Phone: 336-852-4903

E-mail: dreedy@golder.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Henderson County Closed Landfill	802 Stoney Mountain Road Hendersonville, NC 28791	45-01	.1600/.0500	March 20-21, 2013

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.

David Y. Reedy II, P.G. Senior Project Hydrogeologist 336-852-4903

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

Signature 2-25-13 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1963 GEOLOGIST DAVID YATES REEDY, II 2-25-13

Golder Associates NC, Inc., 5B Oak Branch Drive, Greensboro, NC 27407

Facility Representative Address

C-2862

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

Revised 6/2009

July 25, 2013 0839-650612.100

Ms. Jackie Drummond
Department of Environment and Natural Resources
Division of Waste Management
Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699
919-707-8294

RE: WATER QUALITY MONITORING REPORT, FIRST SEMI-ANNUAL 2013 SAMPLING EVENT CLOSED HENDERSON COUNTY LANDFILL, PERMIT NO. 45-01 HENDERSON COUNTY, NORTH CAROLINA

Dear Jackie:

On behalf of Henderson County, Golder Associates NC, Inc. (Golder) is submitting the enclosed *Water Quality Monitoring Report,* which documents the results of the March 20-21, 2013, compliance monitoring event at the closed municipal solid waste (MSW) landfill and closed construction and demolition (C&D) landfill at the above-referenced facility. Surface water monitoring point TSW-1 had no discernable flow during the event and a sample was not collected.

At the closed MSW facility, two NC Appendix I inorganic constituents (barium and cadmium) were detected at concentrations that exceed their respective Solid Waste Section Limits (SWSLs) and their respective North Carolina Groundwater Quality Standards (NC 2L Standards) or Solid Waste Section Groundwater Protection Standards (GPSs) in samples from one or more downgradient wells during the March 2013 event. The concentrations of barium in the sample from MW-8 and cadmium in the sample from MW-7 were statistically evaluated in accordance with the procedures outlined in 15A NCAC 13B.1632(g) and (h). The concentrations of these constituents were determined to be below background concentrations and no further action is warranted. Cobalt, thallium, and vanadium were detected in samples from one or more downgradient wells at the closed MSW facility at estimated concentrations below their SWSLs, but above their respective NC 2L Standards or GPSs. No other NC Appendix I inorganic constituents exceeded their respective NC 2L Standards or GPS during the March 2013 event for the closed MSW facility.

At the closed MSW facility, seven NC Appendix I VOCs (benzene; 1,4-dichlorobenzene; 1,1-dichloroethane; methylene chloride; tetrachloroethene; trichloroethene; and vinyl chloride) were detected above their respective SWSLs and NC 2L Standards in samples from monitoring wells during the March 2013 event. Vinyl chloride was also detected at estimated concentrations below the SWSL, but above the NC 2L Standard in samples from one or more downgradient wells. The detected VOC constituents and concentrations are generally consistent with reported concentrations during previous events at the closed MSW landfill.

At the closed C&D facility, no NC Appendix I inorganic constituents were detected in samples from downgradient monitoring wells at concentrations above the SWSLs and the applicable groundwater standards. Cobalt and vanadium were detected in samples from one or more downgradient wells at estimated concentrations below their respective SWSLs, but above the GPS, as they have been during previous events. The concentrations of indicator parameters iron and manganese in one or more downgradient wells exceeded their respective SWSLs and NC 2L Standards. Based on iron and manganese concentrations in recent samples from background well MW-10, the concentrations of iron and manganese in samples from downgradient wells appear to be naturally occurring.

Golder Associates NC, Inc.
5B Oak Branch Drive
Greensboro, NC. 27407 USA
Tel: (336) 852-4903 Fax: (336) 852-4904 www.golder.com

At the C&D facility, one NC Appendix I VOC (vinyl chloride) was detected at estimated concentrations below the SWSL, but above the NC 2L Standard in samples from one or more downgradient wells during the March 2013 event, as they have been during previous events. No other NC Appendix I VOCs were detected at concentrations that exceeded their respective NC 2L Standards.

No NC Appendix I inorganic constituents were detected concentrations that exceeded the SWSLs and applicable surface water standards in surface water monitoring points during the March 2013 sampling event. VOC 1,4-dichlorobenzene was detected in the sample from BR-2 above the SWSL, but below the surface water standard, as it has been during previous events. No other NC Appendix I VOCs were detected above the SWSLs in surface water samples during the March 2013 event.

Based on these results, the uppermost aquifer beneath the MSW landfill should continue to be monitored in accordance with the requirements of the Assessment Monitoring Program as outlined in Title 15A of North Carolina Administrative Code (NCAC) Subchapter 13B Rule.1634. As required by 15A NCAC 13B.1635, the County prepared an Assessment of Corrective Measures (ACM) for the MSW landfill and submitted the report to NCDENR on April 15, 2013. The ACM was approved by NCDENR on May 22, 2013, and the County is preparing hold a public hearing to discuss the ACM and potential remedies for the site.

Also based on the results, the County will continue monitoring the C&D landfill in accordance with the requirements of the Assessment Monitoring Program as outlined in Title 15A NCAC 13B.0545. The next compliance monitoring event for this facility is tentatively scheduled for September 2013. If you have any questions, please contact the undersigned at 336-852-4903.

Sincerely,
GOLDER ASSOCIATES NC, INC.

David "Dusty" Y. Reedy II, P.G.
Senior Project Hydrogeologist

Rachel P. Kirkman, P.G.
Associate and Senior Geologist

C: Marcus Jones, P.E., Director of Engineering, Henderson County, 1 Historic Courthouse Square, Suite 6, Hendersonville, NC 28792. 828-694-6560. majones@hendersoncountync.org (electronic copy)

Natalie Berry, P.E., Assistant County Engineer, Henderson County Landfill, 100 North King Street, Hendersonville, NC 28792. 828-694-6523. nberry@hendersoncountync.org

Greg Wiggins, Manager, Solid Waste Department, 191 Transfer Station Drive, Hendersonville, NC 28791. 828-694-7982 gwiggins@hendersoncountync.org

Table of Contents

COVER LETTER
1.0 INTRODUCTION 1
1.1 Site Description and Background 1
1.2 Compliance Monitoring History 2
1.3 Hydrogeologic Setting 3
2.0 FIELD PROGRAM, MONITORING RESULTS, AND DISCUSSION 4
2.1 Visual Inspection Program 4
2.2 Well Network and Groundwater Elevation Measurements 4
2.3 March 2013 Groundwater and Surface Water Monitoring Event 5
2.4 Laboratory Analysis Program 6
2.5 March 2013 Sampling Results for the Closed MSW Landfill 7
2.6 March 2013 Sampling Results for the Closed C&D Landfill 7
3.0 LABORATORY AND FIELD QA/QC 7
4.0 DATA EVALUATION 8
4.1 North Carolina Groundwater and Surface Water Quality Standard Comparisons for the Closed MSW Landfill 8
4.2 North Carolina Groundwater Standard Comparisons for the Closed C&D Landfill 8
4.3 Statistical Evaluations 9
5.0 CONCLUSIONS 9
6.0 REFERENCES 10

List of Tables

Table 1 Summary of Historical Static Water Level Data
Table 2 Summary of Estimated Horizontal Flow Velocities
Table 3 Summary of Detected Constituents in MSW Monitoring Wells
Table 4 Summary of Detected Constituents in C&D Monitoring Wells
Table 5 Summary of Detected Constituents in Surface Water Monitoring Points

List of Drawings

Drawing 1 Groundwater Surface Contour Map, March 20, 2013

List of Appendices

Appendix A Groundwater and Surface Water Sampling Logs
Appendix B March 2013 Groundwater and Surface Water Certificate-of-Analysis, Chain-of-Custody Forms and Laboratory Data Review
Appendix C Statistical Evaluation Worksheets & Summary Table

1.0 INTRODUCTION

This report summarizes the monitoring results from the March 20-21, 2013, groundwater and surface water sampling and analysis event at the closed Henderson County Landfill in Henderson County, North Carolina in accordance with Title 15A of the North Carolina Administrative Code (NCAC) Subchapter 13B.1632 and NCAC Subchapter 13B.0544. The Henderson County Landfill, which consists of a closed municipal solid waste (MSW) and a closed construction and demolition (C&D) landfill, is maintained by the County under Permit No. 45-01 issued by the North Carolina Department of Environment and Natural Resources (NCDENR).

1.1 Site Description and Background

The location of the facility is shown on the inlay on Drawing 1. As presented, the closed Henderson County Landfill is located approximately 3 miles northwest of the city of Hendersonville, off Stoney Mountain Road. The County maintains an approximately 120-acre landfill facility that consists of a closed, unlined C&D over MSW facility; a closed, unlined C&D facility; a closed, unlined facility formerly operated by the Tennessee Valley Authority (TVA); and an active transfer station. A white goods area, a yard waste disposal area, and a beneficial reuse area are also present on the property.

Unpermitted waste was discovered along the eastern portion of the southern property boundary in 2011, during the construction of a road to the new customer convenience center. The waste, which appears to consist of mainly C&D material, extends off-site to an adjacent parcel. NC DENR was informed of the discovery and the County is in the process of trying to purchase the affected properties.

The MSW facility is subject to Assessment Monitoring in accordance with .1634 of the Solid Waste Management Rules (SWMR) and the Transition Plan for the facility. The C&D facility is subject to water quality monitoring in accordance with the January 1, 2007, revision to the C&D Rules (.0544 of the SWMR) and is currently in Assessment Monitoring. Water quality monitoring is also required for the TVA landfill.

The facility has been in operation since the 1940s, beginning with the TVA landfill. In January 1998, the MSW facility ceased accepting MSW waste and began placing C&D waste over the MSW waste. After closure of the C&D-over-MSW area, a new C&D landfill began operation on the southeastern portion of the facility property. The C&D-over-MSW area was capped with a modified clay cap. The County ceased accepting waste at the stand-alone C&D landfill on June 30, 2008, and completed closure activities on June 30, 2009.

The landfill is bounded to the north and east by residential and undeveloped wooded properties, to the south by Stoney Mountain Road and residential and wooded properties, and to the west by a tributary of Mill Pond Creek, a North Carolina Department of Transportation maintenance yard, and a Henderson County School bus maintenance facility. Topographic relief at the landfill ranges from approximately 2170 to 2590 feet above mean sea level. Surface drainage from the facility is predominantly to the southwest

toward several streams along the western and southern portions of the property. These features drain into Mill Pond Creek located southwest of the landfill.

1.2 Compliance Monitoring History

Henderson County monitors water quality at the closed MSW landfill by sampling one upgradient background monitoring well (MW-5), and three downgradient monitoring wells (MW-6, MW-7, and MW-8) semi-annually. Two assessment monitoring wells (AMW-1S and AMW-1D) have also been monitored semi-annually since April 2002. Samples from the wells have historically been analyzed for the NC Appendix II list for the first semi-annual event and the NC Appendix I list plus mercury during the second semi-annual event.

Based on the documented volatile organic compound (VOC) exceedances of applicable groundwater standards, the County submitted an *Additional Groundwater Assessment Proposed Work Plan* to NCDENR on September 26, 2008. NCDENR approved the Work Plan on April 17, 2008, and the County submitted the *Assessment Report* on June 3, 2008. As part of the *Assessment Report*, assessment monitoring wells AMW-2S and AMW-2D were installed to further delineate the VOC plume. As part of this submittal, Camp Dresser & McKee (CDM) recommended that AMW-2S and AMW-2D continue to be sampled semi-annually. On September 17, 2009, representatives of the County and Golder met with NCDENR and submitted a Groundwater Assessment Work Plan to NCDENR to address continued assessment activities at the MSW and C&D facilities. During the meeting, it was verbally agreed that well MW-9 would no longer be sampled and would remain for water level collection, and wells AMW-1S, AMW-1D, AMW-2S, and AMW-2D would be sampled for NC Appendix I constituents plus mercury. A follow-up emails were received on September 18, 2009, regarding approval to discontinue monitoring MW-9, and on February 2, 2010, regarding approval of reduced analytical parameters for the four assessment monitoring wells. In a letter to the County dated May 12, 2011, NCDENR requested that MW-9 be sampled on an annual basis for NC Appendix I constituents to monitor the closed TVA landfill.

In July 2012, Henderson County submitted a Nature and Extent Study (NES) to the NCDENR with the purpose of delineating the vertical and horizontal extent of those constituents identified in the groundwater samples at concentrations that exceed their respective groundwater standards. The NCDENR granted approval of the NES on October 18, 2012. The October 18, 2012, approval letter of the NES requires the County to initiate an Assessment of Corrective Measures (ACM) per 15A NCAC 13B.1635 of the NC Solid Waste Management Rules. An ACM was submitted to the NCDENR on April 15, 2013.

Four surface water monitoring points, BR-1, BR-2, BR-3, and SW-1, have been monitored semi-annually for NC Appendix I parameters. In response to leachate seeps initially observed in September 2010, two temporary surface water monitoring points (TSW-1 and TSW-2) were added to the routine semi-annual water quality monitoring events at the closed MSW facility. The temporary surface water points are to be sampled semi-annually for at least five years from the date of the first sampling event of March 2011.

The County monitors water quality at the C&D facility by sampling one upgradient monitoring well (MW-10), and three downgradient monitoring wells (MW-11, MW-12, and MW-13) semi-annually. Samples from the wells have been analyzed for the NC Appendix I list plus mercury and indicator parameters. On September 28, 2010, the County submitted an *Alternate Source Demonstration* (ASD) to NCDENR in response to VOC concentrations detected in samples from the closed C&D landfill downgradient monitoring wells. Based on the data and evaluations from the ASD, it was apparent that leachate from the C&D disposal unit is not the likely source of the VOC concentrations. Additionally, the data suggest that the source of the VOCs in samples from the monitoring wells is most likely landfill gas. On May 12, 2011, NCDENR issued a letter to the County to initiate an Assessment Monitoring Program at the C&D facility. The County submitted an Assessment Monitoring Work Plan to NCDENR on September 21, 2011, and sampled the C&D landfill monitoring wells for the NC Appendix II list of constituents during the September 2011. Prior to the September 2012 compliance monitoring event, NCDENR allowed the County to sample the C&D wells for the NC Appendix I list of constituents plus 2,4-D after conducting two NC Appendix II sampling events.

1.3 Hydrogeologic Setting

Geologically, the facility is located within the Chauga Belt of the Blue Ridge Physiographic Province of North Carolina (NCGS, 1985 and 2004). The Chauga Belt is comprised of Cambrian intrusive metamorphic rocks of monzonitic to granodioritic origin. The Chauga Belt is considered a low-grade metamorphic part of the Inner Piedmont Belt and is bordered to the west by the Brevard thrust fault zone. The facility is underlain primarily by the Henderson Gneiss which is a medium-gray, biotite granite augen composed of microcline, oligoclase, quartz, biotite, and minor amounts of muscovite, epidote, and titanite (Butler and Secor, 1991). The topography of the area is characterized by rolling, rounded hills with broad valleys and moderately steep ravines typically containing streams.

The uppermost groundwater beneath the facility is present in a shallow, unconfined aquifer comprised of partially weathered, fractured, metamorphic intrusive rock. Topographic relief at the site ranges from an elevation of approximately 2590 feet above mean sea level (AMSL) along the eastern property boundary and slopes downward to the southwest to an approximate elevation of 2170 feet AMSL along the western property boundary. As a result of the varying topographic relief at the site, groundwater occurs at depths of ranging from approximately 6 to 55 feet below grade. Depth-to-water measurements obtained during the March 2013 monitoring event are summarized in Table 1 and were used to prepare a groundwater surface contour map presented as an overlay on Drawing 1.

As presented, the groundwater flow in the uppermost aquifer beneath the site is generally toward the southwest toward a tributary of Mill Pond Creek, which is located along the western property boundary of the site. The groundwater contour map and interpreted flow directions are generally consistent with previously submitted groundwater contour maps and flow directions.

Based on the March 2013 groundwater surface contour map, the average hydraulic gradient in the shallow aquifer underlying the MSW landfill was calculated to be approximately 0.082 feet/foot (Table 2). The hydraulic gradient underlying the C&D landfill was calculated to be approximately 0.259 feet/foot (Table 2). A hydraulic conductivity of 1.26E-04 centimeters/second is used based on an average of previous hydraulic conductivities calculated for specific wells (CDM, October 2008). An estimated effective porosity of 0.15 was used for the shallow aquifer to represent a range from saprolite to fractured rock (CDM, December 2008).

Using the above values, the estimated rate of groundwater flow for the uppermost aquifer beneath the facility was calculated using the following modified Darcy equation:

$$V_{gw} = Ki/n_e$$

where V_{gw} = average linear velocity (feet/year), K = hydraulic conductivity (feet/year), i = horizontal hydraulic gradient, and n_e = effective porosity.

The average estimated linear groundwater flow velocity under the MSW landfill is approximately 72 feet/year, which is generally consistent with previous estimates (Table 2). The average estimated linear groundwater flow velocity under the C&D landfill is approximately 226 feet/year (Table 2). The range of groundwater flow is expected to vary depending on the hydrogeologic unit in which it occurs. However, the linear velocity equation above makes the simplified assumptions of a homogeneous and isotropic aquifer. Therefore, this equation represents a likely average value for the uppermost aquifer and does not account for heterogeneous and/or anisotropic conditions that may be present in the uppermost aquifer at the facility.

2.0 FIELD PROGRAM, MONITORING RESULTS, AND DISCUSSION

Field activities conducted for the March 2013 sampling event are discussed in the following sections.

2.1 Visual Inspection Program

In order to ensure that a potential release is detected at the earliest possible time, the visual inspection program is used by sampling personnel at the closed Henderson County Landfill. This program includes physical indicators such as potential water table mounding beneath the waste management unit, physical examination of any stresses in biological communities, visible signs of leachate migration (i.e., leachate seeps), unexplained changes in soil characteristics, and any other change to the environment due to the waste management unit. During the March 2013 compliance monitoring event, no physical indicators of a potential release were observed in the vicinity of the waste management area.

2.2 Well Network and Groundwater Elevation Measurements

The network of groundwater monitoring wells at the closed Henderson County MSW landfill consists of one upgradient monitoring well (MW-5) and three downgradient monitoring wells (MW-6, MW-7, and

MW-8). Four assessment monitoring wells (AMW-1S, AMW-1D, AMW-2S, and AMW-2D) are also monitored during each semi-annual monitoring event. Four surface water monitoring points, BR-1, BR-2, BR-3, and SW-1, are monitored semi-annually. At the request of the NCDENR, temporary surface water monitoring points TSW-1 and TSW-2 have been added to the monitoring network at the closed MSW landfill. Monitoring well and surface water point locations are shown on Drawing 1. Monitoring wells MW-6, MW-7, MW-8, AMW-1S, and AMW-2S are screened in the shallow, unconfined aquifer. Monitoring wells MW-5, AMW-1D, and AMW-2D are screened in fractured bedrock.

The network of groundwater monitoring wells at the closed C&D landfill consists of one upgradient monitoring well (MW-10), and three downgradient monitoring wells (MW-11, MW-12, and MW-13). The four wells are screened in the shallow, unconfined aquifer to target the preferential flow path for groundwater underlying the closed C&D waste disposal areas. Well MW-9 is sampled annually (first semi-annual event) to monitor groundwater downgradient of the closed TVA landfill. The landfill is screened in the shallow, unconfined aquifer.

Depth-to-water measurements were recorded to the nearest 0.01 foot prior to initiating groundwater purging and sampling activities. A summary of the current and available historical water level elevations are presented in Table 1.

As presented, the data indicate that the hydraulic head level in the uppermost aquifer beneath the facility is fairly consistent, with temporal variation from the long-term average ranging from approximately 2 to 12 feet (plus or minus). As expected, the range in fluctuation is greatest in the upgradient wells MW-5 and MW-10, as these wells are located in groundwater recharge areas. The range of fluctuation in downgradient compliance wells, which are located closer to groundwater discharge areas, is less, presumably due to the stabilizing effect of the hydraulic discharge boundary.

2.3 March 2013 Groundwater and Surface Water Monitoring Event

Personnel from Golder visited the facility on March 20-21, 2013, to purge and sample the 13 monitoring wells (MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, AMW-1S, AMW-1D, AMW-2S, and AMW-2D) at the closed MSW and C&D landfills and to sample six surface water monitoring points (BR-1, BR-2, BR-3, SW-1, TSW-1, and TSW-2). Depth-to-water measurements were obtained from the monitoring wells to the nearest 0.01 foot using an electronic water level indicator prior to purging the wells.

All monitoring wells, except for MW-11, were purged and sampled with disposable bailers. At least three casing volumes of groundwater were removed from each well prior to sampling. Measurements of temperature, pH, specific conductivity, and turbidity were recorded after each purge volume and at the time of sampling with field-calibrated instruments to monitor groundwater quality.

Monitoring well MW-11 was purged and sampled using a portable bladder pump because the well casing was bent during construction of the new convenience center and a bailer can no longer be lowered to the bottom of the well. At least three casing volumes of groundwater were removed from the well prior to sampling. Measurements of temperature, pH, specific conductivity, and turbidity were recorded after each purge volume and at the time of sampling with field-calibrated instruments to monitor groundwater quality.

The groundwater samples were collected directly from the bailer or bladder pump discharge line in the labeled, laboratory-supplied, pre-preserved sample containers after purging was completed. Each sample container was labeled with the sample identification number, sampling personnel, date and time of sample collection, project name and number, and requested chemical analyses.

After collection, the samples were placed in a cooler on ice, under chain-of-custody control. Copies of the sampling logs are presented in Appendix A. Included on each log is a description of the sampling equipment, sampling location, sampling method, field observations, and water quality measurements.

The surface water samples BR-1, BR-2, BR-3, SW-1, and TSW-2 were collected by lowering the sample containers into the stream flow with the opening facing away from the current flow, taking care to prevent the overflow of the sample containers and to minimize sample-induced turbidity. Measurements of temperature, pH, specific conductivity, oxidation-reduction potential, and turbidity were recorded during the collection of the surface water samples. Surface water monitoring point TSW-1 had no discernable flow and a sample was not collected during the March 2013 event.

After collection, the samples were placed in a cooler on ice, under chain-of-custody control. Copies of the sampling logs are presented in Appendix A. Included in each log is a description of the sampling equipment, sampling location, sampling method, field observations, and water quality measurements.

2.4 Laboratory Analysis Program

The March 2013 groundwater and surface water samples were shipped to Environmental Conservation Laboratories, Inc. (ENCO) of Cary, North Carolina under chain-of-custody control. The samples were received at the laboratory on March 22, 2013, in good condition and properly preserved. Groundwater samples from the compliance MSW wells were analyzed for the NC Appendix II list of constituents. Groundwater samples from the assessment MSW wells were analyzed for the NC Appendix I list of constituents plus mercury. Groundwater samples from the closed C&D facility were analyzed for the NC Appendix I list of constituents, 2,4-D, tetrahydrofuran, and indicator parameters specified in Title 15A NCAC 13B.0566. TVA well MW-9 and surface water samples BR-1, BR-2, BR-3, SW-1, TSW-1, and TSW-2 were analyzed for the NC Appendix I list of constituents.

2.5 March 2013 Sampling Results for the Closed MSW Landfill

Analytical results for the March 2013 groundwater samples at the closed MSW landfill are summarized in Table 3 with available historical data. The laboratory certificates-of-analysis, chain-of-custody form, and laboratory data reviews for the sampling event are included in Appendix B.

As presented, three NC Appendix I inorganic constituents (barium, cadmium, and zinc) were detected at the MSW landfill at concentrations above their respective Solid Waste Section Limits (SWSLs) in samples from one or more MSW downgradient monitoring wells during the March 2013 monitoring event. Ten NC Appendix I VOCs (benzene, chlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, tetrachloroethene, trichloroethene, vinyl chloride, and xylenes) were detected above their respective SWSLs in one or more downgradient monitoring wells at the closed MSW landfill during the March 2013 event.

As presented in Table 5, two NC Appendix I inorganic constituents (barium and zinc) were detected above their respective SWSLs in one or more surface water points during the March 2013 event. One NC Appendix I VOC (1,4-dichlorobenzene) was detected above the SWSL in surface water monitoring point BR-2 during the sampling event.

2.6 March 2013 Sampling Results for the Closed C&D Landfill

Analytical results for the March 2013 groundwater samples at the closed C&D landfill are summarized in Table 4 with available historical data. The laboratory certificates-of-analysis, chain-of-custody form, and laboratory data reviews for the sampling event are included in Appendix B.

One NC Appendix I inorganic constituent (zinc) was detected in samples from one or more downgradient monitoring wells at concentrations above the SWSL during this event. Indicator parameters iron and manganese were detected in samples from each downgradient monitoring well above their respective SWSLs. Two NC Appendix I VOCs (methylene chloride and trichlorofluoromethane) were detected in samples from downgradient wells above their SWSLs during the March 2013 event at the closed C&D landfill.

3.0 LABORATORY AND FIELD QA/QC

A field blank was collected by Golder personnel as part of the March 2013 groundwater and surface water sampling event. In addition to the field blank, a laboratory-prepared trip blank accompanied the volatile sample containers for the March 2013 sampling event to and from the laboratory. ENCO analyzed the field blank for the NC Appendix II list of parameters plus tetrahydrofuran. The trip blank was analyzed for NC Appendix II VOCs and tetrahydrofuran.

A review of the laboratory data was performed by Golder (Appendix B). Barium, silver, and manganese were detected at estimated concentrations in the field blank. Tetrahydrofuran was detected at a quantifiable concentration in the field blank. Chloride was detected at a quantifiable concentration in one

of the laboratory method blanks. Based on Golder's review, concentrations of the following constituents have been blank-qualified in the associated samples: Barium (MW-10 and AMW-2D); silver (MW-7, MW-8, AMW-1S, AMW-2S, BR-1, and BR-2); manganese (MW-10); tetrahydrofuran (MW-12 and MW-13); and chloride (MW-10, MW-11, and MW-13) are considered blank-qualified.

4.0 DATA EVALUATION

The results of the data evaluations are presented in the following sections.

4.1 North Carolina Groundwater and Surface Water Quality Standard Comparisons for the Closed MSW Landfill

As presented in Table 3, two NC Appendix I inorganic constituents were detected at quantifiable concentrations that exceeded their respective North Carolina 2L Groundwater Standards (2L Standards) or Solid Waste Section Groundwater Protection Standards (GPS) in samples from monitoring wells at the MSW landfill during the March 2013 monitoring event. Barium was detected in the sample from MW-8 at a concentration that exceeded its SWSL and NC 2L Standard. Cadmium was detected in the sample from MW-7 at a concentration that exceeded its SWSL and NC 2L Standard. Cobalt, thallium, and vanadium were also detected in samples from one or more downgradient wells at estimated concentrations below their respective SWSLs, but above their respective NC 2L or GPS. These constituents have been detected at similar concentrations during previous events.

As presented on Table 3, seven NC Appendix I organic constituents were detected at quantifiable concentrations that exceeded their respective NC 2L Standards in samples from monitoring wells at the MSW landfill during the March 2013 event. Benzene was detected in the samples from MW-7, MW-8, AMW-1D, and AMW-2S at concentrations that exceeded its SWSL and NC 2L Standard. Vinyl chloride and 1,4-dichlorobenzene were detected in the sample from MW-7 at concentrations above their SWSL and NC 2L Standards. Methylene chloride, 1,1-dichloroethane, trichloroethene, and tetrachloroethene were detected in the sample from MW-8 at concentrations above their respective SWSL and NC 2L Standards. Vinyl chloride was detected in samples from MW-8, AMW-1D and AMW-2S at estimated concentrations below the SWSL, but above the NC 2L Standard. These detected constituents and concentrations are generally consistent with reported concentrations during recent events at the closed MSW landfill. As presented on Table 5, no NC Appendix I constituents were detected in surface water samples at concentrations above applicable surface water standards during the March 2013 event.

4.2 North Carolina Groundwater Standard Comparisons for the Closed C&D Landfill

As presented on Table 4, no NC Appendix I inorganic constituents were detected in any samples from downgradient wells at concentrations that exceeded the SWSL and GPS or NC 2L Standards at the C&D landfill during the March 2013 event. Cobalt and vanadium were detected in samples from downgradient wells MW-11 and MW-13 at estimated concentrations below the SWSL, but above the GPS during the event. Both constituents have been detected at similar concentrations in samples from the upgradient

well and downgradient wells during previous events. The indicator parameters iron and manganese were detected in the samples from MW-11, MW-12, and MW-13 at concentrations that exceeded their respective SWSLs and NC 2L Standards during the event. Based on iron and manganese concentrations in recent samples from background well MW-10, the concentrations of iron and manganese in samples from downgradient wells appear to be naturally occurring.

As presented on Table 4, NC Appendix I VOCs were not detected at concentrations above the SWSLs and NC 2L Standards in samples from downgradient monitoring wells during the March 2013 event at the closed C&D landfill. Vinyl chloride was detected in the samples from MW-11, MW-12, and MW-13 at estimated concentrations below its SWSL, but above the NC 2L Standard. The detections of VOCs in downgradient monitoring wells may be associated with landfill gas as discussed in an ASD submitted to NCDENR on September 28, 2010.

4.3 Statistical Evaluations

As discussed above, two NC Appendix I inorganic constituents (barium and cadmium) were detected above their respective SWSLs and water quality standards during the March 2013 event in samples from one or more downgradient wells for the MSW landfill. The concentrations of barium in the sample from MW-8 and cadmium in the sample from MW-7 were statistically evaluated in accordance with the procedures outlined in 15A NCAC 13B.1632(g) and (h) to determine if the reported concentrations exceeded the facility background concentrations. The statistical worksheets are presented as Appendix C. The concentrations of barium and cadmium were determined to be below the background concentrations during this event, and therefore; no further action is required.

5.0 CONCLUSIONS

Due to the continued presence of VOCs above applicable groundwater standards, Henderson County will continue to monitor the uppermost aquifer beneath the MSW in accordance with the requirements of the Assessment Monitoring Program as outlined in Title 15A NCAC 13B.1634. Henderson County is also continuing with groundwater assessment activities as presented in the Work Plan, approved by NCDENR on December 18, 2009. An ACM was approved by NCDENR on May 22, 2013, and the County is preparing hold a public hearing to discuss the ACM and potential remedies for the site.

An ASD was submitted to NCDENR on September 28, 2010, to address the source of the VOCs in recent samples from the closed C&D landfill wells. Based on the data and evaluations from the ASD, it is apparent that leachate from the C&D unit is not the likely source of the VOC concentrations that have been detected in the C&D landfill downgradient monitoring wells. Additionally, the data suggest that the source of the VOCs detected in these monitoring wells is most likely landfill gas. However, a letter from NCDENR dated May 12, 2011, instructed the County to initiate an Assessment Monitoring Program for the C&D facility. This is the fourth event that the concentrations of VOCs in samples from downgradient wells did not exceed respective SWSLs and applicable groundwater standards.

Based on the results summarized herein, the County will continue monitoring the MSW and C&D landfills in accordance with the requirements of the Assessment Monitoring Program as outlined in Title 15A NCAC 13B.1634 and Title 15A NCAC 13B.0545. The next compliance monitoring event for this facility is tentatively scheduled for September 2013.

6.0 REFERENCES

Butler, J.R., and D.T. Secor, Jr., 1991. The Central Piedmont (Chapter 4) in J.W. Horton, Jr. and V.A. Zullo, eds., *The Geology of the Carolinas* (Carolina Geological Society Fiftieth Anniversary Volume): The University of Tennessee Press, pp. 2, 4, 24, 36, 44-45.

Camp Dresser & McKee, December 2008. *October 2008 Semi-Annual Sampling Report, Stoney Mountain Road Sanitary Landfill*.

Camp Dresser & McKee, June 3, 2008. *Henderson County Closed Stoney Mountain Road Sanitary Landfill Additional Groundwater Assessment.*

Camp Dresser & McKee, May 9, 2008. *April 2008 Semi-Annual Sampling Report, Stoney Mountain Road Sanitary Landfill*.

Camp Dresser & McKee, September 26, 2008. *Henderson County Additional Groundwater Assessment Proposed Workplan*.

Golder Associates NC, Inc., September 17, 2009. *Groundwater Assessment Work Plan; Closed Henderson County Landfill, Permit No. 45-01; Henderson County, North Carolina*.

Golder Associates NC, Inc., September 28, 2010. *Alternate Source Demonstration: Anomalous Detections of Volatile Organic Compounds; Henderson County Closed Construction and Demolition Landfill, Permit No. 45-01.*

North Carolina Geologic Survey, 1985. Geologic Map of North Carolina

North Carolina Geologic Survey, 2004. Modified from 1991 Generalized Geologic Map (digital representation)

TABLES

TABLE 1

Summary of Historical Static Water Level Data
Henderson County Closed MSW and C&D Landfills, Permit No. 45-01

	Monitoring Well																
	MW-5	**MW-6**	**MW-7**	**MW-8**	**MW-9**	**MW-10**	**MW-11**	**MW-12**	**MW-13**	**AMW-1S**	**AMW-1D**	**AMW-2S**	**AMW-2D**	**MW-1 (Old)**	**MW-1**	**MW-2 (Old)**	**MW-2**
TOC Elevation (ft AMSL)	2389.82	2204.24	2210.66	2235.87	2259.59	2404.55	2307.72	2300.09	2296.33	2193.09	2190.77	2177.66	2177.58	2206.42	2205.76	2182.77	2182.07
Date	**Static Water Elevation (ft AMSL)**																
10/04/06	2334.31	2191.02	2191.61	2209.54	2244.64	--	--	--	--	2179.83	2176.67	--	--	--	--	--	--
03/21/07	--	--	--	--	--	2371.42	2266.46	2250.25	2252.90	--	--	--	--	--	--	--	--
10/02/07	2331.55	2188.19	2189.95	2207.85	2244.08	--	--	--	--	2176.63	2174.07	--	--	--	--	--	--
04/03/08	2326.17	2190.65	2190.63	2209.61	2244.03	--	--	--	--	2180.41	2177.04	--	--	--	--	--	--
10/29/08	2322.17	2186.73	2188.87	2206.91	2242.52	2364.42	2258.56	2246.56	2245.91	2175.87	2173.56	2168.25	2170.93	--	--	--	--
03/24/09	2319.25	2188.30	2189.28	2208.43	2242.21	2363.04	2256.50	2244.43	2244.51	2178.99	2176.04	2169.29	2172.05	--	--	--	--
09/21-24/09	2326.37	2194.99	2190.56	2209.46	2243.29	2367.33	2258.97	2245.20	2245.56	2180.79	2177.56	2170.17	2174.88	2200.47	2200.58	2174.92	2174.14
03/22-23/10	2342.62	<2185.22	2193.88	2208.53	2236.04	2376.31	2258.18	2250.60	2253.17	2182.71	2178.32	2170.28	2173.33	2200.91	2201.11	2175.02	2164.27
09/21-22/10	2338.34	2189.98	2191.49	2210.62	2245.16	2369.83	2267.16	2250.78	2253.84	2177.74	2173.85	2171.40	2170.92	2199.72	2199.58	2163.77	2171.73
03/15-16/11	2333.36	2194.83	2191.45	2211.13	2245.10	2367.12	2263.36	2248.90	2251.00	2181.44	2176.77	2169.72	2171.74	2200.61	2200.72	2174.81	2173.04
09/20-21/11	2331.91	2189.10	2190.61	2209.78	2244.95	2368.37	2260.95	2249.18	2250.57	2177.42	2173.77	2168.40	2170.86	2199.74	2199.44	2173.97	2171.72
03/20-22/12	2330.51	2189.49	2191.15	2210.25	2244.54	2367.47	2260.61	2248.24	2249.98	2178.99	2175.58	2169.04	2171.08	2200.24	2200.13	2174.36	2172.34
09/19-20/12	2328.67	2189.64	2190.07	2209.24	--	2367.05	2260.07	2247.39	2249.08	2177.89	2175.53	2169.33	2172.33	--	--	--	--
03/20/13	2330.45	2189.68	2190.54	2210.79	2244.43	2367.57	2259.14	2247.66	2249.30	2179.83	2176.77	2169.69	2173.50	2200.44	2200.45	2174.59	2172.83
MEAN	*2330.44*	*2190.22*	*2190.78*	*2209.40*	*2243.42*	*2368.18*	*2260.91*	*2248.11*	*2249.62*	*2179.12*	*2175.81*	*2169.56*	*2172.16*	*2200.30*	*2200.29*	*2173.06*	*2171.44*
MAXIMUM	*2342.62*	*2194.99*	*2193.88*	*2211.13*	*2245.16*	*2376.31*	*2267.16*	*2250.78*	*2253.84*	*2182.71*	*2178.32*	*2171.40*	*2174.88*	*2200.91*	*2201.11*	*2175.02*	*2174.14*
MINIMUM	*2319.25*	*2186.73*	*2188.87*	*2206.91*	*2236.04*	*2363.04*	*2256.50*	*2244.43*	*2244.51*	*2175.87*	*2173.56*	*2168.25*	*2170.86*	*2199.72*	*2199.44*	*2163.77*	*2164.27*

Notes: ft AMSL = feet above mean sea level.
TOC = top of casing
-- = no data available
Historical data prior to March 2009 provided by Henderson County and CDM.
The stick-ups on monitoring wells MW-9, MW-11, and MW-13 were modified prior to the September 2011 event and the TOC elevations for those wells have been resurveyed.

TABLE 2

Summary of Estimated Horizontal Flow Velocities
Henderson County Closed MSW and C&D Landfills, Permit No. 45-01

March 2013							
Gradient Calculation Segment	**Flow Direction**	**Gradient Segment Length (feet)**	**Gradient Segment Elevations (feet)**	**Horizontal Gradient (i, feet)**	**Effective Porosity (n_e)**	**Hydraulic Conductivity (K, cm/sec)**	**Velocity (V_{gw}, feet/year)**
i_1	SW	1473	2320 / 2200	0.0815	0.15	1.26E-04	70.99
i_2	SSW	1445	2320 / 2200	0.0830	0.15	1.26E-04	72.34
i_3	WSW	386	2360 / 2260	0.2594	0.15	1.26E-04	225.94

Notes: Horizontal velocities based on the modified Darcy equation $V_{gw} = Ki/n_e$.
Value for K is collected from the average of measured hydraulic conductivities from the December 2008 CDM Report.
Value for n_e is an estimated effective porosity used in previous CDM reports.

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Antimony	ug/L	12/05/94	6	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 1 ug/L	ug/L	02/14/95	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	6	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	6	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	6	ND	ND	3	ND	--	--	--	--	ND	--
	ug/L	05/14/98	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	6	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	6	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	6	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	6	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	6	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	6	ND	ND	ND	ND	ND	ND	--	--	0.91 J	ND
	ug/L	10/02/07	6	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	6	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	6	ND	Dry	ND	0.441 J	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	6	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	6	0.226 J	ND	0.286 J	ND	0.460 J	0.382 J	ND	0.365 J	--	ND
	ug/L	09/21/11	6	ND	0.478 J	0.408 J	0.287 J	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	6	0.320 J	ND	ND	0.906 J	ND	0.236 J	ND	ND	ND	ND
	ug/L	09/20/12	6	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	6	ND	ND	ND	0.621 J	ND	ND	ND	ND	ND	ND
Arsenic	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 10 ug/L	ug/L	02/14/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	10.1	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	11.1	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	14.7	ND	21.3	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	0.84 J	0.94 J	0.46 J	1.13 J	ND	--	--	ND	ND
	ug/L	10/02/07	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	10	2.07 J	2.45 J	3.04 J	5.07 J	ND	ND	3.64 J	10.5	ND	ND
	ug/L	10/29/08	10	ND	13.9	7.18 J	ND	ND	5.98 J	5.38 J	2.96 J	ND	ND
	ug/L	03/24/09	10	ND	ND	ND	3.1 J	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	10	ND	5.40 B	7.18 B	ND	ND	ND	ND	ND	--	2.90 J
	ug/L	03/22/10	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	5.27 J	ND	4.58 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	10	ND	ND	5.48 J	6.93 J	ND	ND	4.29 J	3.03 J	--	ND
	ug/L	03/21/12	10	3.80 J	ND	ND	ND	ND	ND	ND	4.00 J	ND	ND
	ug/L	09/20/12	10	ND	ND	ND	ND	ND	ND	ND	ND	--	3.27 J
	ug/L	03/20/13	10	ND	ND	ND	ND	ND	ND	ND	3.04 J	ND	ND
Barium	ug/L	12/05/94	100	134	237	378	528	--	--	--	--	207	--
NC 2L = 700 ug/L	ug/L	02/14/95	100	ND	416	439	601	--	--	--	--	205	--
	ug/L	04/03/95	100	174	493	350	786	--	--	--	--	197	--
	ug/L	10/30/95	100	348	539	230	835	--	--	--	--	358	--
	ug/L	04/08/96	100	199	332	264	790	--	--	--	--	140	--
	ug/L	10/24/96	100	300	--	338	925	--	--	--	--	285	--
	ug/L	04/15/97	100	180	--	300	810	--	--	--	--	360	--
	ug/L	10/29/97	100	200	700	500	700	--	--	--	--	100	--
	ug/L	05/14/98	100	ND	ND	ND	628	--	--	--	--	ND	--
	ug/L	10/11/98	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	100	ND	ND	ND	552	--	--	--	--	ND	--
	ug/L	10/29/99	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	100	ND	ND	ND	ND	258	--	--	--	ND	--
	ug/L	11/07/00	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	100	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	100	ND	ND	ND	604	--	--	--	--	ND	--
	ug/L	10/16/01	100	ND	178	116	298	--	ND	--	--	ND	--
	ug/L	04/24/02	100	ND	ND	ND	642	ND	ND	--	--	ND	--
	ug/L	10/01/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	100	ND	ND	ND	522	ND	ND	--	--	ND	--
	ug/L	10/20/03	100	ND	ND	ND	720	ND	ND	--	--	ND	--
	ug/L	03/24/04	100	ND	ND	ND	829	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	ND	530	ND	866	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	100	ND	ND	ND	982	ND	ND	--	--	ND	--
	ug/L	04/25/06	100	ND	687	ND	822	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	ND	562	ND	920	ND	ND	--	--	ND	ND
	ug/L	03/21/07	100	47.5 J	136	294	992	306	27.2 J	--	--	49.9 J	ND
	ug/L	10/02/07	100	135	904	198	695	563	37.4 B	--	--	54.3 B	16.1 J
	ug/L	04/03/08	100	87.8 J	86.8 J	144	714	476	20.3 B	44.3 B	39.4 B	65.9 J	10.1 J
	ug/L	10/29/08	100	69.9 J	795	227	429	930	28.2	24.9 J	19.4 J	62.1 J	ND
	ug/L	03/24/09	100	26.2 J	54.5 J	203	517	221	19.0 J	15.4 J	ND	56.7 J	ND
	ug/L	09/22/09	100	31.5 J	48.9 J	259	916	323	11.7 J	19.1 J	5.46 J	--	ND
	ug/L	03/22/10	100	28.2 J	Dry	268	693	79.9 J	23.1 J	9.57 J	4.16 B	--	1.54 J
	ug/L	09/23/10	100	34.3 J	335	302	1130	86.5 J	13.1 J	7.69 J	1.79 J	--	ND
	ug/L	03/16/11	100	71.3 J	39.4 J	417	414	216	8.14 J	85.4 J	2.71 J	--	ND
	ug/L	09/21/11	100	40.2 J	482	453	1370	214	12.2 J	14.0 J	2.07 J	--	ND
	ug/L	03/21/12	100	60.8 J	315	481	1070	412	14.5 J	7.28 J	1.64 J	180	ND
	ug/L	09/20/12	100	28.9 J	58.9 J	464	454	390	12.2 J	12.9 J	2.15 J	--	ND
	ug/L	03/20/13	100	51.9 J	33.4 J	518	957	342	10.4 J	8.94 J	1.74 B	192	1.34 J
Beryllium	ug/L	12/05/94	1	ND	ND	3	7	--	--	--	--	ND	--
SWS GPS = 4 ug/L	ug/L	02/14/95	1	ND	ND	4	5	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	2	3	9	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	5	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	4	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	4	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	8	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	3	3	14	--	--	--	--	1	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	2.4	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	4.2	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	1.06 J	5.1 J	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	ND	ND	--	--	22.8 B	6.01
	ug/L	04/03/08	1	1.07	2.8	6.28	ND	5.41	3.2	ND	2.33	1.54	ND
	ug/L	10/29/08	1	4.60	5.96	2.23	10.2	10.7	5.45	10.7	2.23	11.2	ND
	ug/L	03/24/09	1	0.35 J	0.20 J	0.82 J	3.02	1.30	ND	0.18 J	ND	0.35 J	ND
	ug/L	09/22/09	1	0.438 J	0.299 J	0.771 J	1.26	0.438 J	ND	0.470 J	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	0.635 J	ND	0.631 J	ND	ND	0.247 J	--	ND
	ug/L	09/23/10	1	0.198 J	ND	0.570 J	ND	0.492 J	ND	ND	ND	--	ND
	ug/L	03/16/11	1	0.208 J	ND	0.422 J	ND	1.06	ND	1.80	ND	--	ND
	ug/L	09/21/11	1	ND	0.183 J	0.707 J	1.13	1.37	ND	0.138 J	ND	--	ND
	ug/L	03/21/12	1	0.222 J	ND	0.260 J	0.189 J	1.96	ND	ND	ND	1.37	ND
	ug/L	09/20/12	1	ND	ND	0.298 J	0.443 J	1.68	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	0.258 J	0.327 J	0.420 J	ND	ND	ND	1.68	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Cadmium	ug/L	12/05/94	1	ND	ND	22	ND	--	--	--	--	ND	--
NC 2L = 2 ug/L	ug/L	02/14/95	1	ND	ND	3	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	1	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	9	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	5.6	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	1.2	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	2.3	1.7	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	15	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	3.2	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	2	--	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	2	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	2	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	1.35	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	3.34	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	11.6	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	1.31	1.28	1.08	1	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	1.9	1.02	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	1.39	ND	2.57	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	1.73 J	1.27	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	1.57 J	0.65 J	2.35 J	2.08 J	2.5 J	1.38 J	--	--	1.4 J	ND
	ug/L	10/02/07	1	ND	ND	1.63	0.4 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	0.2 J	0.9 J	0.47 J	0.29 J	ND	ND	ND	ND	ND
	ug/L	10/29/08	1	ND	3.09	0.43 J	0.2 J	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	0.22 J	0.18 J	1.06	0.61 J	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	0.667 J	ND	0.659 J	0.627 J	ND	ND	1.24	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	0.493 J	0.618 J	0.416 J	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	0.517 J	ND	ND	1.07	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	0.666 J	0.441 J	0.841 J	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	0.673 J	ND	2.13	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	0.655 J	ND	2.87	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	3.30	ND	1.20	ND	ND	ND	ND	ND
Chromium	ug/L	12/05/94	10	ND	ND	56	ND	--	--	--	--	ND	--
NC 2L = 10 ug/L	ug/L	02/14/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	11	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	5	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	3	--	ND	2	--	--	--	--	2	--
	ug/L	10/29/97	10	3	8	2	2	--	--	--	--	1	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	20.1	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	14.9	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	11.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	11.3	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	3.33 J	3.81 J	6.01 J	4.12 J	2.7 J	1.29 J	--	--	1.44 J	ND
	ug/L	10/02/07	10	9.55 B	9.44 B	7.31 B	4.47 B	5.99 B	12.3 B	--	--	3.67 B	3.67 J
	ug/L	04/03/08	10	6.54 B	4.93 B	4.18 B	4.42 B	4.18 B	3.31 B	4.18 B	130	2.45 B	2.94 J
	ug/L	10/29/08	10	7.45 J	35.5	8.07 J	6.10 J	8.55	11.3	5.24 J	13.7	4.63 J	ND
	ug/L	03/24/09	10	ND	1.0 J	1.6 J	4.0 J	1.2 J	ND	ND	1.5 J	ND	ND
	ug/L	09/22/09	10	1.36 J	ND	1.99 J	3.28 J	1.14 J	ND	1.61 J	1.51 J	--	ND
	ug/L	03/22/10	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	ND	1.50 J	4.38 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	2.55 J	1.32 J	2.90 J	3.29 J	1.60 J	ND	3.34 J	ND	--	ND
	ug/L	09/21/11	10	ND	6.75 J	5.20 J	12.4	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	10	2.15 J	3.60 J	2.25 J	4.57 J	3.36 J	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	ND	ND	1.31 J	2.42 J	2.29 J	ND	ND	ND	--	ND
	ug/L	03/20/13	10	2.48 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	ug/L	12/05/94	10	ND	41	ND	ND	--	--	--	--	ND	--
SWS GPS = 1 ug/L	ug/L	02/14/95	10	ND	48	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	38	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	ND	34	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	32	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	2	--	19	2	--	--	--	--	3	--
	ug/L	10/29/97	10	ND	19	7	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	53.4	17.3	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	52.3	11.5	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	12.5	ND	14.3	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	14	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	17.9	ND	ND	16.1	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	11.4	ND	ND	11.7	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	13.1	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	32.1	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	94.9	16	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	120	18.5	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	35.5	16.8	--	13.4	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	23.5	16.2	ND	16.1	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	18.8	13.9	ND	16.1	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	15.4	13.4	ND	18.9	ND	--	--	ND	ND
	ug/L	03/21/07	10	1.13 J	11.3	12.6	1.5 J	16.2	ND	--	--	ND	ND
	ug/L	10/02/07	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	10	ND	12.4	ND	ND	15.1	ND	12.5	ND	ND	ND
	ug/L	10/29/08	10	3.55 J	35.9	5.16 J	3.74 J	24.8	ND	3.91 J	ND	ND	ND
	ug/L	03/24/09	10	0.6 J	3.1 J	ND	5.8 J	10.7	ND	4.0 J	ND	ND	ND
	ug/L	09/22/09	10	ND	4.81 J	ND	2.50 J	10.8	ND	ND	ND	--	ND
	ug/L	03/22/10	10	ND	Dry	ND	6.33 J	3.47 J	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	2.13 J	ND	9.21 J	3.42 J	ND	ND	ND	--	ND
	ug/L	03/16/11	10	ND	ND	ND	2.87 J	8.51 J	ND	1.26 J	ND	--	ND
	ug/L	09/21/11	10	ND	3.73 J	ND	7.48 J	9.15 J	ND	ND	ND	--	ND
	ug/L	03/21/12	10	ND	3.48 J	ND	3.74 J	18.4	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	ND	ND	ND	3.20 J	16.0	ND	1.33 J	ND	--	ND
	ug/L	03/20/13	10	1.32 J	ND	ND	3.67 J	5.62 J	ND	ND	ND	ND	ND
Copper	ug/L	12/05/94	10	ND	ND	19	ND	--	--	--	--	ND	--
NC 2L = 1000 ug/L	ug/L	02/14/95	10	10	ND	ND	ND	--	--	--	--	16	--
	ug/L	04/03/95	10	ND	ND	13	12	--	--	--	--	14	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	13	--	ND	ND	--	--	--	--	10	--
	ug/L	04/15/97	10	20	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	10	20	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	12.4	12.8	4.23 J	5.28 J	5.41 J	5.15 J	--	--	9.92 J	ND
	ug/L	10/02/07	10	33.9	16.7 B	6.61 B	7.24 B	9.14 B	6.91 B	--	--	5.94 B	6.41 J
	ug/L	04/03/08	10	23.4	23.9	4.54 B	6.53 B	5.54 B	5.75 B	5.89 B	10.6 B	4.58 B	4.46 J
	ug/L	10/29/08	10	16.5	145	7.91 J	8.17 J	8.61	9.49	6.93 J	7.82 J	6.28 J	ND
	ug/L	03/24/09	10	2.32 J	4.96 J	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	10	5.15 J	6.17 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	10	1.84 J	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	1.77 J	ND	ND	9.93 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	9.85 J	6.75 J	ND	2.99 J	1.73 J	1.66 J	4.98 J	ND	--	ND
	ug/L	09/21/11	10	4.10 J	12.8	ND	14.2	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	10	8.77 J	ND	ND	2.96 J	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	1.77 J	3.29 J	ND	2.54 J	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	10	9.21 J	5.01 J	1.84 J	2.57 J	ND	1.99 J	ND	ND	ND	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Lead	ug/L	12/05/94	10	ND	7	27	7	--	--	--	--	ND	--
NC 2L = 15 ug/L	ug/L	02/14/95	10	ND	10	5	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	12	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	7	19	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	6	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	8	--	7	ND	--	--	--	--	13	--
	ug/L	04/15/97	10	13	--	ND	12	--	--	--	--	12	--
	ug/L	10/29/97	10	9	36	5	11	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	14.4	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	11.9	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	24	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	61.3	ND	17.4	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	11.9	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	12.7	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	6.56 J	3.69 J	ND	3.14 J	ND	--	--	1.9 J	ND
	ug/L	10/02/07	10	69.2 J	7.18 J	1.39 B	0.9 B	0.80 B	0.56 B	--	--	0.57 B	0.49 J
	ug/L	04/03/08	10	75.8 J	16.4	ND	8 J	6.43 J	3.78 J	6.16 J	12.5	6.23 J	ND
	ug/L	10/29/08	10	75.9 J	84.7	7.72 J	6.83 J	9.41	9.08	8.50 J	6.93 J	4.54 J	ND
	ug/L	03/24/09	10	3.3 J	5.6 J	1.6 J	6.2 J	2.5 J	1.6 J	3.1 J	ND	ND	ND
	ug/L	09/22/09	10	3.52 J	2.55 J	ND	3.17 J	2.50 J	ND	3.96 J	1.95 J	--	ND
	ug/L	03/22/10	10	ND	Dry	ND	2.20 J	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	ND	ND	12.2	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	4.92 J	ND	ND	3.40 J	ND	ND	25.6	2.69 J	--	ND
	ug/L	09/21/11	10	ND	15.5	3.27 J	18.5	2.57 J	ND	ND	ND	--	ND
	ug/L	03/21/12	10	4.38 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	2.53 B	3.10 B	4.18 B	5.91 B	4.90 B	4.40 B	4.82 B	3.00 B	--	2.70 J
	ug/L	03/20/13	10	ND	ND	3.46 J	ND	ND	ND	ND	ND	ND	ND
Mercury	ug/L	12/05/94	0.2	--	--	--	--	--	--	--	--	--	--
NC 2L = 1 ug/L	ug/L	02/14/95	0.2	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	0.2	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	0.2	0.5	ND	0.9	0.9	--	--	--	--	0.8	--
	ug/L	04/08/96	0.2	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	0.2	0.7	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	0.2	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	0.2	ND	ND	1.9	0.8	--	--	--	--	ND	--
	ug/L	05/14/98	0.2	ND	ND	2	0.2	--	--	--	--	ND	--
	ug/L	10/11/98	0.2	ND	ND	ND	0.2	--	--	--	--	ND	--
	ug/L	06/04/99	0.2	ND	ND	0.5	ND	--	--	--	--	ND	--
	ug/L	10/29/99	0.2	ND	ND	0.4	ND	--	--	--	--	ND	--
	ug/L	04/20/00	0.2	ND	ND	1.0	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	0.2	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	0.2	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	0.2	ND	ND	0.4	ND	--	--	--	--	ND	--
	ug/L	10/16/01	0.2	ND	ND	0.3	0.3	--	ND	--	--	0.3	--
	ug/L	04/24/02	0.2	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	0.2	ND	ND	0.3	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	0.2	ND	ND	0.3	ND	ND	ND	--	--	0.3	--
	ug/L	10/20/03	0.2	ND	ND	0.45	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	0.2	ND	ND	0.73	0.258	ND	ND	--	--	ND	--
	ug/L	10/27/04	0.2	ND	ND	0.91	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	0.2	ND	ND	0.72	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	0.2	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	0.2	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	0.2	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	0.2	ND	ND	0.134 J	0.242 J	ND	ND	--	--	ND	ND
	ug/L	10/02/07	0.2	ND	ND	ND	0.709	ND	ND	--	--	ND	ND
	ug/L	04/03/08	0.2	ND	ND	ND	0.489	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	0.2	ND	0.145 J	ND	0.503	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.2	ND	ND	ND	1.33	ND	ND	ND	ND	0.14 J	ND
	ug/L	09/22/09	0.2	ND	ND	0.0926 J	0.419	--	--	--	--	--	ND
	ug/L	03/22/10	0.2	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.2	ND	ND	ND	0.371	ND	ND	ND	ND	--	ND
(dissolved)	ug/L	09/23/10	0.2	--	--	--	ND	--	--	--	--	--	--
	ug/L	03/16/11	0.2	ND	ND	ND	ND	ND	ND	0.178 J	ND	--	ND
	ug/L	09/21/11	0.2	ND	ND	ND	0.683	ND	ND	0.225	ND	--	ND
	ug/L	03/21/12	0.2	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/20/12	0.2	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.2	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Nickel	ug/L	12/05/94	50	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 100 ug/L	ug/L	02/14/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	50	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	50	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	50	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	50	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	50	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	50	ND	1.61 J	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	50	2.75 B	9.04 J	0.67 B	0.9 B	4.65 J	8.72 J	--	--	0.24 B	0.8 J
	ug/L	04/03/08	50	ND	ND	ND	ND	ND	ND	5.89 J	7.09 J	ND	ND
	ug/L	10/29/08	50	ND	47.3 J	ND	ND	8.13 J	7.57 J	6.40 J	4.99 J	ND	ND
	ug/L	03/24/09	50	ND	3.9 J	ND	2.8 J	2.5 J	0.9 J	2.2 J	ND	ND	ND
	ug/L	09/22/09	50	ND	3.77 J	ND	ND	2.54 J	2.04 J	ND	ND	--	ND
	ug/L	03/22/10	50	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	50	ND	2.28 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	50	ND	4.59 J	ND	ND	2.04 J	ND	ND	ND	--	ND
	ug/L	03/21/12	50	ND	3.62 J	ND	ND	3.14 J	ND	ND	ND	ND	ND
	ug/L	09/20/12	50	ND	ND	ND	ND	2.62 J	ND	ND	ND	--	ND
	ug/L	03/20/13	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 20 ug/L	ug/L	02/14/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	61.1	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	24.7	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	20.6	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	25.3	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	26.6	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	23.4	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	9.46 J	23.4	10.7 J	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	10	ND	7.49 J	ND	11.1	ND	ND	--	--	8.68 J	ND
	ug/L	04/03/08	10	ND	10.7	ND	ND	10.9	ND	9.54 J	7.51 J	ND	ND
	ug/L	10/29/08	10	ND	37.5	ND	ND	1.94	ND	ND	ND	ND	ND
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	10	6.68 B	ND	8.38 B	4.55 B	ND	7.33 B	4.11 B	5.98 B	--	6.41 J
	ug/L	03/22/10	10	ND	Dry	ND	ND	0.962 J	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	5.08 B	ND	ND	ND	--	3.32 J
	ug/L	09/21/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Silver	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 20 ug/L	ug/L	02/14/95	10	ND	ND	ND	ND	--	--	--	--	11	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	0.9	--	0.9	0.7	--	--	--	--	0.3	--
	ug/L	10/29/97	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	11.3	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	0.64 J	3.42 J	0.5 J	1.14 J	0.46 J	--	--	3.18 J	ND
	ug/L	10/02/07	10	ND	1.82 J	0.91 J	ND	0.86 J	ND	--	--	ND	ND
	ug/L	04/03/08	10	ND	0.97 J	2.04 J	ND	0.94 J	ND	1.48 J	ND	ND	ND
	ug/L	10/29/08	10	4.74 J	6.91 J	5.23 J	5.00 J	6.32 J	5.19 J	4.91 J	4.33 J	5.24 J	ND
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	10	ND	ND	ND	ND	2.24 J	ND	ND	ND	--	ND
	ug/L	03/22/10	10	ND	Dry	ND	3.34 J	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	2.52 J	ND	3.05 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	10	ND	3.73 J	ND	2.33 J	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	10	ND	ND	7.00 B	3.58 B	3.31 B	ND	2.17 B	ND	ND	2.11 J
Thallium	ug/L	12/05/94	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 0.28 ug/L	ug/L	02/14/95	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5.5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5.5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	5.5	1	1	1	1	--	--	--	--	2	--
	ug/L	05/14/98	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	5.5	13.7	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	5.5	--	--	--	--	--	--	--	--	--	--
	ug/L	06/21/01	5.5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5.5	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5.5	ND	22.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5.5	ND	77.1	22	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5.5	ND	58.5	54.6	17.8	ND	ND	--	--	ND	--
	ug/L	04/25/06	5.5	ND	81.3	24.2	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5.5	ND	ND	24	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/29/08	5.5	ND	8.90	ND	6.97	9.61	ND	--	--	ND	ND
	ug/L	03/24/09	5.5	0.051 B	0.090 B	0.080 B	0.242 B	0.280 B	ND	ND	ND	ND	0.092 J
	ug/L	09/22/09	5.5	ND	ND	ND	0.404 J	0.212 J	ND	ND	ND	--	ND
	ug/L	03/22/10	5.5	ND	Dry	0.118 J	0.620 J	0.169 J	ND	ND	ND	--	ND
	ug/L	09/23/10	5.5	ND	ND	0.124 J	1.18 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	5.5	ND	ND	0.516 J	1.12 J	0.274 J	0.491 J	0.514 J	ND	--	ND
	ug/L	09/21/11	5.5	ND	ND	ND	1.53 J	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	5.5	ND	ND	0.119 J	1.31 J	0.418 J	ND	ND	ND	ND	ND
	ug/L	09/20/12	5.5	ND	0.144 J	0.155 J	1.09 J	0.512 J	ND	ND	ND	--	ND
	ug/L	03/20/13	5.5	0.117 J	ND	0.413 J	0.659 J	0.487 J	ND	ND	ND	ND	ND
Tin	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
SWS GPS = 2000 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/11/98	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/04/99	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/99	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/20/00	--	--	--	--	--	--	--	--	--	--	--
	ug/L	11/07/00	--	--	--	--	--	--	--	--	--	--	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/16/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/24/02	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/01/02	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/09/03	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/20/03	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/24/04	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/27/04	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/25/05	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/04/05	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/25/06	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/04/06	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/07	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	10/02/07	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	04/03/08	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	10/29/08	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/24/09	100	ND	ND	1.4 J	5.4 J	1.3 J	2.0 J	1.5 J	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	100	ND	Dry	ND	2.38 J	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	100	2.50 J	3.17 J	5.65 J	7.24 J	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	100	ND	3.86 J	3.42 J	4.51 J	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	100	ND	3.86 J	3.79 J	6.88 J	--	--	--	--	--	ND
Vanadium	ug/L	12/05/94	25	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 0.3 ug/L	ug/L	02/14/95	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	25	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	25	13	--	ND	5	--	--	--	--	6	--
	ug/L	10/29/97	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	25	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	25	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	25	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	25	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	25	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	25	3.81 J	4.21 J	ND	1.31 J	ND	ND	--	--	ND	ND
	ug/L	10/02/07	25	17.1 J	12.9 J	5.6 J	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	25	9.73 J	10.7 J	ND	ND	ND	ND	ND	5.13 J	ND	ND
	ug/L	10/29/08	25	4.88 J	88.9	10.3 J	0.52 J	1.37 J	3.74 J	0.86 J	ND	ND	ND
	ug/L	03/24/09	25	2.2 J	3.2 J	1.7 J	9.0 J	ND	ND	3.0 J	0.9 J	0.7 J	ND
	ug/L	09/22/09	25	3.31 J	1.97 J	ND	5.45 J	ND	ND	6.35 J	1.52 J	--	ND
	ug/L	03/22/10	25	1.75 J	Dry	ND	1.76 J	ND	ND	1.78 J	1.42 J	--	ND
	ug/L	09/23/10	25	ND	ND	ND	14.7 J	ND	ND	4.79 J	ND	--	ND
	ug/L	03/16/11	25	4.98 J	2.77 J	ND	ND	ND	ND	15.3 J	ND	--	ND
	ug/L	09/21/11	25	2.21 J	8.14 J	2.88 J	17.3 J	ND	ND	11.1 J	ND	--	ND
	ug/L	03/21/12	25	4.72 J	ND	ND	ND	ND	ND	1.70 J	ND	ND	ND
	ug/L	09/20/12	25	1.79 J	1.77 J	ND	4.28 J	ND	ND	3.65 J	ND	--	ND
	ug/L	03/20/13	25	5.60 J	2.36 J	ND	2.47 J	ND	ND	ND	ND	ND	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Zinc	ug/L	12/05/94	10	21	ND	33	20	--	--	--	--	82	--
NC 2L = 1000 ug/L	ug/L	02/14/95	10	33	44	29	69	--	--	--	--	113	--
	ug/L	04/03/95	10	29	48	26	29	--	--	--	--	20	--
	ug/L	10/30/95	10	25	30	ND	ND	--	--	--	--	23	--
	ug/L	04/08/96	10	44	63	22	67	--	--	--	--	36	--
	ug/L	10/24/96	10	37	--	22	18	--	--	--	--	39	--
	ug/L	04/15/97	10	50	--	50	30	--	--	--	--	40	--
	ug/L	10/29/97	10	ND	340	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	20.6	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	15.6 J	124	6.92 J	10.1 J	12.1 J	3.82 J	--	--	7.14 J	ND
	ug/L	10/02/07	10	44	49.1	12.6 J	5.43 J	6.23 J	ND	--	--	4.53 J	ND
	ug/L	04/03/08	10	31.9	46	5.82 J	10.4	4.83 J	4.06 J	14.1	27.7	5.53 J	ND
	ug/L	10/29/08	10	20.1	380	29.0	6.90 J	5.37 J	ND	5.37 J	ND	6.63 J	ND
	ug/L	03/24/09	10	10.7 B	56.3	9.3 B	38.3	4.1 B	3.4 B	7.7 B	ND	4.1 B	3.4 J
	ug/L	09/22/09	10	13.8	12.3	4.56 J	12.8	7.02 J	5.92 J	18.0	8.77 J	--	ND
	ug/L	03/22/10	10	9.18 J	Dry	8.52 J	36.7	15.6	7.21 J	11.2	7.25 J	--	ND
	ug/L	09/23/10	10	ND	ND	5.37 J	168	4.30 J	5.86 J	ND	ND	--	ND
	ug/L	03/16/11	10	17.6	36.7	7.03 J	611	4.64 J	17.5	44.8	4.77 J	--	ND
	ug/L	09/21/11	10	9.32 J	44.1	9.85 J	430	4.44 J	11.7	14.2	4.57 J	--	ND
	ug/L	03/21/12	10	14.9	28.8	ND	48.3	ND	6.06 J	ND	ND	ND	ND
	ug/L	09/20/12	10	5.18 J	6.60 J	ND	173	6.69 J	5.19 J	4.68 J	3.87 J	--	ND
	ug/L	03/20/13	10	21.3	12.5	6.76 J	60.1	9.19 J	6.32 J	ND	5.00 J	12.0	ND
Acetone	ug/L	12/05/94	100	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 6000 ug/L	ug/L	02/14/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	100	ND	50	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	100	ND	98	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	100	ND	95	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	100	ND	330	ND	ND	--	--	--	--	ND	--
	ug/L	11/11/98	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	100	ND	780	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	100	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	100	ND	190	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	100	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	100	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/25/02	100	ND	190	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	100	ND	280	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/21/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/25/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/06/05	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/26/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/22/07	100	ND	ND	4.34 J	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	100	ND	9.81 B	ND	ND	1.76 B	ND	--	--	ND	5.5 J
	ug/L	04/03/08	100	ND	10.1 J	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/30/08	100	ND	13.8 J	ND	ND	7.95 J	ND	ND	ND	ND	ND
	ug/L	03/24/09	100	ND	280	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	100	ND	9.0 J	13 J	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	100	ND	Dry	55 J	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	100	ND	8.7 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	100	ND	16 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	100	ND	310	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	100	ND	2700	3.6 J	13 J	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	100	ND	ND	ND	5.4 B	ND	ND	ND	ND	--	7.0 J
	ug/L	03/20/13	100	ND	21 J	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ug/L	12/05/94	200	ND	ND	ND	ND	--	--	--	--	ND	--
No Standard	ug/L	02/14/95	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	200	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	200	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	200	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	200	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	200	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	200	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	200	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	200	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	200	ND	ND	ND	17.9 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	200	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/L	12/05/94	5	ND	11	ND	ND	--	--	--	--	ND	--
NC 2L = 1 ug/L	ug/L	02/14/95	5	ND	11	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	8	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	9	3.9	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	5	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	6.9	ND	--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	5	6	ND	--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	8	6	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	7	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	8	6	ND	--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	6	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	7	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	6	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	7.19	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	7.61	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	6.23	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	6.8	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	1.36	2.48	3.55	0.44 J	1.52	--	--	ND	ND
	ug/L	10/02/07	5	ND	5.47	1.70	4.99	1.68	1.55	--	--	ND	ND
	ug/L	04/03/08	5	ND	0.37 J	1.57	5.82	0.98 J	1.48	1.28	ND	ND	ND
	ug/L	10/29/08	5	ND	3.08	1.51	6.23	2.13	1.49	1.25	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	0.64 J	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	1.4	4.2	0.44 J	1.3	1.2	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	1.4	ND	ND	1.1	0.75 J	ND	--	ND
	ug/L	09/23/10	1	ND	0.98 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	1.6	ND	ND	1.2	0.96 J	ND	--	ND
	ug/L	09/21/11	1	ND	4.6	1.4	0.85 J	ND	1.2	0.82 J	ND	--	ND
	ug/L	03/21/12	1	ND	ND	1.1	0.65 J	0.73 J	0.95 J	0.82 J	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	0.94 J	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	1.5	3.0	ND	1.2	1.2	ND	ND	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Carbon disulfide	ug/L	02/14/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 700 ug/L	ug/L	04/03/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	12/05/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	100	ND	15	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	100	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	100	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	100	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	100	ND	ND	ND	0.14 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	100	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 0.3 ug/L	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	12/05/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	2	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/L	12/05/94	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 50 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	7	3	ND	--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	8	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	7	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND	8	--	--	--	ND	--
	ug/L	11/07/00	5	ND	7	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	ND	6	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	7	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	6	ND	ND	7	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	8	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND	6	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	10	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	11	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	13	5	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	6	--	6.12	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	13.4	6	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	10.8	6.02	ND	9.62	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	9	6	ND	16.2	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	1.34	5.89	0.59 J	2.83	4.62	--	--	ND	ND
	ug/L	10/02/07	5	ND	6.16	5.95	0.83 J	ND	5.13	--	--	ND	ND
	ug/L	04/03/08	5	ND	0.30 J	5.72	1.14 J	11.3	5.01	4.50	ND	ND	ND
	ug/L	10/29/08	5	ND	8.02	5.41	1.11 J	23.8	5.09	1.86 J	ND	ND	ND
	ug/L	03/24/09	3	ND	ND	4.6	ND	0.46 J	3.8	2.0 J	ND	ND	ND
	ug/L	09/22/09	3	ND	ND	5.7	0.75 J	4.9	4.9	1.0 J	ND	--	ND
	ug/L	03/22/10	3	ND	Dry	6.4	ND	ND	4.6	0.97 J	ND	--	ND
	ug/L	09/23/10	3	ND	7.5	6.3	ND	ND	4.2	0.55 J	ND	--	ND
	ug/L	03/16/11	3	ND	ND	7.3	ND	ND	4.5	1.2 J	ND	--	ND
	ug/L	09/21/11	3	ND	8.1	8.4	ND	1.4 J	4.6	1.2 J	ND	--	ND
	ug/L	03/21/12	3	ND	ND	8.5	ND	5.5	3.6	1.7 J	ND	ND	ND
	ug/L	09/20/12	3	ND	ND	7.8	ND	1.7 J	1.8 J	ND	ND	--	ND
	ug/L	03/20/13	3	ND	ND	10	1.0 J	1.2 J	5.2	2.4 J	ND	ND	ND
Chloroethane	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 3000 ug/L	ug/L	02/14/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	10	ND	2	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	10	ND	0.85 J	ND	0.69 J	11.1	ND	--	--	ND	ND
	ug/L	04/03/08	10	ND	ND	ND	0.87 J	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	10	ND	ND	ND	0.68 J	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
1,2-Dichlorobenzene	ug/L	12/05/94	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 20 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	1	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	14	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	7	ND	6	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	6	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	12	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	10	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	10	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	0.39 J	ND	0.97 J	ND	0.62 J	--	--	ND	ND
	ug/L	10/02/07	5	ND	2.52 J	0.56 J	0.94 J	0.44 J	0.67 J	--	--	ND	ND
	ug/L	04/03/08	5	ND	ND	0.46 J	1.35 J	0.23 J	0.65 J	0.27 J	ND	ND	ND
	ug/L	10/29/08	5	ND	1.98 J	0.45 J	1.12 J	0.52 J	0.63 J	0.29 J	ND	ND	ND
	ug/L	03/24/09	5	ND	ND	ND	0.44 J	ND	0.53 J	ND	ND	ND	ND
	ug/L	09/22/09	5	ND	ND	ND	0.66 J	ND	0.46 J	ND	ND	--	ND
	ug/L	03/22/10	5	ND	Dry	0.49 J	ND	ND	0.64 J	ND	ND	--	ND
	ug/L	09/23/10	5	ND	3.6 J	0.52 J	ND	ND	0.64 J	ND	ND	--	ND
	ug/L	03/16/11	5	ND	ND	ND	ND	ND	0.71 J	ND	ND	--	ND
	ug/L	09/21/11	5	ND	5.8	0.58 J	ND	ND	0.65 J	ND	ND	--	ND
	ug/L	03/21/12	5	ND	ND	0.56 J	ND	ND	0.62 J	ND	ND	ND	ND
	ug/L	09/20/12	5	ND	ND	0.50 J	0.52 J	ND	0.51 J	ND	ND	--	ND
	ug/L	03/20/13	5	ND	ND	0.76 J	1.3 J	ND	0.90 J	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--
NC 2L = 170 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	5	ND	ND	9	ND	--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/99	5	--	--	--	--	--	--	--	--	--	--
	ug/L	04/20/00	5	--	--	--	--	--	--	--	--	--	--
	ug/L	11/07/00	5	--	--	--	--	--	--	--	--	--	--
	ug/L	02/27/01	5	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	--	--	--	--	--	--	--	--	--	--
	ug/L	10/16/01	5	--	--	--	--	--	--	--	--	--	--
	ug/L	04/24/02	5	--	--	--	--	--	--	--	--	--	--
	ug/L	10/01/02	5	--	--	--	--	--	--	--	--	--	--
	ug/L	04/09/03	5	--	--	--	--	--	--	--	--	--	--
	ug/L	04/09/03	5	--	--	--	--	--	--	--	--	--	--
	ug/L	10/20/03	5	--	--	--	--	--	--	--	--	--	--
	ug/L	03/24/04	5	--	--	--	--	--	--	--	--	--	--
	ug/L	10/27/04	5	--	--	--	--	--	--	--	--	--	--
	ug/L	05/25/05	5	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	ND	ND	--	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	ND	ND	0.22 J	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/L	12/05/94	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 6 ug/L	ug/L	02/14/95	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	11	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	10	5	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	--	9	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	8	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	24	ND	--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	9	10	ND	--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	18	22	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	18	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	18	10	ND	--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	7	ND	--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	5	18	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	8	ND	--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	ND	14	6	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	12	7	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	18	8	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	14	9	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	12	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	23	13	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	20	19	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	17.8	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	25.4	17	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	24.3	16.4	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	18.5	14.6	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	1.67 J	17.1	2.79 J	1.37	2.86 J	--	--	ND	ND
	ug/L	10/02/07	5	ND	18.7	12.0	3.64 J	3.24 J	2.99 J	--	--	ND	ND
	ug/L	04/03/08	5	ND	0.38 J	8.37	4.50 J	1.57 J	2.77 J	2.11 J	ND	ND	ND
	ug/L	10/29/08	5	ND	23.9	7.81	4.44 J	4.11 J	2.96 J	1.66 J	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	6.4	1.3	0.57 J	2.6	1.4	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	6.8	2.4	1.4	2.1	1.0	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	9.8	ND	ND	3.2	1.2	ND	--	ND
	ug/L	09/23/10	1	ND	15	8.8	ND	ND	3.4	0.91 J	ND	--	ND
	ug/L	03/16/11	1	ND	ND	10	ND	ND	3.2	1.3	ND	--	ND
	ug/L	09/21/11	1	ND	14	12	ND	0.93 J	4.2	1.2	ND	--	ND
	ug/L	03/21/12	1	ND	5.4 J	12	0.49 J	2.9	3.7	1.4	ND	ND	ND
	ug/L	09/20/12	1	ND	0.77 J	11	1.0	2.0	3.8	1.2	ND	--	ND
	ug/L	03/20/13	1	ND	ND	14	3.8	ND	5.0	2.2	ND	ND	ND
Dichlorodifluoromethane	ug/L	12/05/94	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 1000 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--	ND	ND	--	--	--	--
	ug/L	10/04/05	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	ND	ND	ND	0.65 J	ND	ND	ND	ND	0.45 J	ND
	ug/L	03/24/09	5	ND	ND	ND	ND	ND	0.55 J	0.86 J	ND	ND	ND
	ug/L	09/22/09	5	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	5	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	5	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	5	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	5	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	5	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	5	ND	ND	ND	ND	--	--	--	--	--	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells				Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8		AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
1,1-Dichloroethane	ug/L	12/05/94	5	ND	ND	ND	ND		--	--	--	--	ND	--
NC 2L = 6 ug/L	ug/L	02/14/95	5	ND	ND	9	ND		--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	--	7	ND		--	--	--	--	--	--
	ug/L	10/30/95	5	ND	ND	10	ND		--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	6	ND		--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	8	ND		--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	1	7	ND		--	--	--	--	1	--
	ug/L	05/14/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	6	ND		--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	5	6		--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	5		ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	6		--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	14		--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	11		--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	ND	ND	25		ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	17		ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	24		ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	ND	ND	18		ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	10		ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	ND	ND	13		ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	ND	ND	6		ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	ND	1.69	7.8		ND	1.31	--	--	ND	ND
	ug/L	10/02/07	5	ND	0.45 J	1.66 J	9.7		0.1 J	1.27 J	--	--	ND	ND
	ug/L	04/03/08	5	ND	ND	1.72 J	13.1		ND	1.36 J	0.98 J	ND	ND	ND
	ug/L	10/29/08	5	ND	0.40 J	1.32 J	13.5		ND	1.36 J	1.33 J	ND	0.11 J	ND
	ug/L	03/24/09	5	ND	ND	0.83 J	3.6 J		ND	1.2 J	1.1 J	ND	ND	ND
	ug/L	09/22/09	5	ND	ND	0.75 J	8.9		ND	1.0 J	1.3 J	ND	--	ND
	ug/L	03/22/10	5	ND	Dry	0.64 J	ND		ND	0.76 J	0.90 J	ND	--	ND
	ug/L	09/23/10	5	ND	ND	0.64 J	ND		ND	0.87 J	0.84 J	ND	--	ND
	ug/L	03/16/11	5	ND	ND	0.56 J	ND		ND	0.91 J	1.0 J	ND	--	ND
	ug/L	09/21/11	5	ND	ND	0.74 J	1.7 J		ND	1.1 J	1.4 J	ND	--	ND
	ug/L	03/21/12	5	ND	ND	0.63 J	0.94 J		ND	0.74 J	1.1 J	ND	ND	ND
	ug/L	09/20/12	5	ND	ND	0.49 J	2.5 J		ND	1.0 J	1.3 J	ND	--	ND
	ug/L	03/20/13	5	ND	ND	0.71 J	6.9		ND	1.2 J	1.6 J	ND	ND	ND
1,2-Dichloroethane	ug/L	12/05/94	5	ND	ND	ND	ND		--	--	--	--	ND	--
NC 2L = 0.4 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	ND		--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	10/02/07	3	ND	0.45 J	ND	ND		ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ug/L	12/05/94	5	ND	ND	ND	ND		--	--	--	--	ND	--
NC 2L = 7 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	ND		--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	ND	ND	ND	0.33 J		ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	ND	ND	ND	0.15 J		ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	5	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	5	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/22/10	5	ND	Dry	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/23/10	5	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/16/11	5	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/21/11	5	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/21/12	5	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	5	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/20/13	5	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ug/L	12/05/94	5	ND	--	24	11		--	--	--	--	ND	--
NC 2L = 70 ug/L	ug/L	02/14/95	5	ND	9	ND	8		--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	7	17	ND		--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	10	25	10		--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	7	17	7		--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	21	ND		--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	14	15		--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	4	20	3		--	--	--	--	6	--
	ug/L	05/14/98	5	ND	ND	14	ND		--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	21	ND		--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	6	17	ND		--	--	--	--	12	--
	ug/L	10/29/99	5	ND	ND	17	ND		--	--	--	--	26	--
	ug/L	04/20/00	5	ND	ND	13	ND		ND	--	--	--	16	--
	ug/L	11/07/00	5	ND	ND	15	ND		--	--	--	--	12	--
	ug/L	02/27/01	5	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	14	7		--	--	--	--	8	--
	ug/L	10/16/01	5	ND	ND	13	ND		--	ND	--	--	10	--
	ug/L	04/24/02	5	ND	ND	15	11		ND	ND	--	--	6	--
	ug/L	10/01/02	5	ND	ND	12	7		ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	11	18		ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	ND	11	22		ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	10	13		ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	ND	10.5	26.2		ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	10.6	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	ND	12.1	12.8		ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	ND	12.8	12.3		ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	ND	14.2	15.7		ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	0.48 J	12.7	22.1		ND	2.3	--	--	ND	ND
	ug/L	10/02/07	5	ND	1.19 J	12.4 J	23.9 J		0.71 J	2.14 J	--	--	ND	ND
	ug/L	04/03/08	5	ND	0.05 J	12.2	30.6		0.35 J	2.25 J	1.85 J	ND	ND	ND
	ug/L	10/29/08	5	ND	0.2 J	9.8	28.9		0.27 J	2.27 J	2.36 J	ND	0.24 J	ND
	ug/L	03/24/09	5	ND	ND	4.9 J	7.4		ND	1.7 J	1.7 J	ND	ND	ND
	ug/L	09/22/09	5	ND	ND	6.1	19		ND	2.0 J	2.5 J	ND	--	ND
	ug/L	03/22/10	5	ND	Dry	7.0	0.66 J		ND	2.0 J	2.1 J	ND	--	ND
	ug/L	09/23/10	5	ND	ND	5.2	ND		ND	1.7 J	1.2 J	ND	--	ND
	ug/L	03/16/11	5	ND	ND	6.4	0.89 J		ND	2.6 J	2.0 J	ND	--	ND
	ug/L	09/21/11	5	ND	ND	5.6	2.9 J		ND	1.7 J	1.3 J	ND	--	ND
	ug/L	03/21/12	5	ND	ND	5.2	2.6 J		ND	1.5 J	1.6 J	ND	ND	ND
	ug/L	09/20/12	5	ND	ND	4.4 J	4.1 J		ND	1.4 J	1.2 J	ND	--	ND
	ug/L	03/20/13	5	ND	ND	5.6	13		ND	1.9 J	1.8 J	ND	ND	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
trans-1,2-Dichloroethene	ug/L	12/05/94	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 100 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	ND	ND	0.50 J	0.22 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	ND	ND	0.44 J	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	ND	ND	0.26 J	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	5	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 0.6 ug/L	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	ND	1	ND	--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	0.2 J	0.65 J	0.5 J	ND	0.17 J	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	ND	ND	ND	ND	0.12 J	ND	ND	ND
	ug/L	10/29/08	1	ND	ND	ND	0.5 J	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	12/05/94	1	ND	11	ND	ND	--	--	--	--	ND	--
NC 2L = 600 ug/L	ug/L	02/14/95	1	ND	14	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	8	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	10	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	9	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	3	ND	2	--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	8	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	11	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	9	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	22.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	28	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	12.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	15.7	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	0.96 J	ND	1.04	ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	3.46	ND	1.24 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	ND	1.37 J	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	1	ND	0.22 J	ND	1.62	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	0.95 J	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	2.1	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	2.3	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/L	12/05/94	50	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 40 ug/L	ug/L	02/14/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	50	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	50	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	50	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	50	ND	55	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	50	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	50	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	50	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	50	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	50	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Dibromomethane	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 70 ug/L	ug/L	02/14/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	10	ND	ND	ND	0.26 J	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ug/L	12/05/94	10	ND	ND	ND	7	--	--	--	--	ND	--
NC 2L = 5 ug/L	ug/L	02/14/95	10	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	10	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	10	ND	ND	10	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	9	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	10	ND	ND	ND	ND	--	--	--	--	1	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	52	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	38	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	87	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	44	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	54	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	27	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	30	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	42.1	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	13.4	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	13.9	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	15.1	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	ND	0.35 J	23.3	ND	0.24 J	--	--	ND	ND
	ug/L	10/02/07	10	ND	0.57 B	ND	22.0	ND	ND	--	--	ND	0.41 J
	ug/L	04/03/08	10	ND	ND	0.34 B	34.2	ND	ND	ND	3.10 J	ND	0.42 J
	ug/L	10/29/08	10	ND	ND	0.27 J	33.7	ND	0.42 J	0.92 J	ND	0.75 J	ND
	ug/L	03/24/09	1	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	21	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	3.4	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	2.4	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
2-Butanone	ug/L	12/05/94	100	ND	10	ND	ND	--	--	--	--	ND	--
NC 2L = 4000 ug/L	ug/L	02/14/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	100	ND	46	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	100	ND	220	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	100	ND	670	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	100	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	100	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	100	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	100	ND	ND	1.68 J	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	100	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ug/L	12/05/94	50	ND	16	ND	ND	--	--	--	--	ND	--
SWS GPS = 560 ug/L	ug/L	02/14/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	50	ND	20	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	100	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	100	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	100	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	100	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Naphthalene	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--
NC 2L = 6 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	--	2	--	--	--	--	--	--	--	--
	ug/L	10/29/97	5	ND	ND	2	ND	--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	9	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	7	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	7	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	6	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	8	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	6	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	6	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	ND	0.66 J	0.57 J	ND	ND	--	--	ND	ND
	ug/L	10/02/07	10	ND	3.04	1.49	0.75	ND	ND	--	--	ND	ND
	ug/L	04/03/08	10	ND	ND	ND	0.76 J	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	10	ND	ND	ND	0.55 J	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	10	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	10	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	--	--	--	ND
Tetrachloroethene (PCE)	ug/L	12/05/94	1	ND	ND	6.6	9	--	--	--	--	ND	--
NC 2L = 0.7 ug/L	ug/L	02/14/95	1	ND	ND	7	7	--	--	--	--	6	--
	ug/L	04/03/95	1	ND	ND	6.3	ND	--	--	--	--	6	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	5	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	9	--
	ug/L	04/15/97	1	ND	--	ND	15	--	--	--	--	16	--
	ug/L	10/29/97	1	ND	ND	4	4	--	--	--	--	16	--
	ug/L	05/14/98	1	ND	ND	ND	19	--	--	--	--	13	--
	ug/L	10/11/98	1	ND	ND	ND	15	--	--	--	--	15	--
	ug/L	06/04/99	1	ND	ND	ND	44	--	--	--	--	27	--
	ug/L	10/29/99	1	ND	ND	ND	27	--	--	--	--	31	--
	ug/L	04/20/00	1	ND	ND	ND	69	ND	--	--	--	30	--
	ug/L	11/07/00	1	ND	ND	ND	54	--	--	--	--	36	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	110	--	--	--	--	24	--
	ug/L	10/16/01	1	ND	ND	ND	44	--	ND	--	--	11	--
	ug/L	04/24/02	1	ND	ND	ND	170	ND	ND	--	--	24	--
	ug/L	10/01/02	1	ND	ND	ND	110	ND	ND	--	--	20	--
	ug/L	04/09/03	1	ND	ND	ND	120	ND	ND	--	--	11	--
	ug/L	10/20/03	1	ND	ND	ND	61	ND	ND	--	--	8	--
	ug/L	03/24/04	1	ND	ND	ND	32	ND	ND	--	--	8.12	--
	ug/L	10/27/04	1	ND	ND	ND	52	ND	ND	--	--	6.96	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	16.2	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	10	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	21	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	28.8	ND	ND	--	--	2.17	ND
	ug/L	10/02/07	1	ND	ND	ND	42.1	ND	ND	--	--	1.79 J	ND
	ug/L	04/03/08	1	ND	ND	ND	47.9	ND	ND	ND	ND	2.32 J	ND
	ug/L	10/29/08	1	ND	ND	ND	48.5	ND	ND	ND	ND	1.98	ND
	ug/L	03/24/09	1	ND	ND	ND	8.7	ND	ND	ND	ND	2.7	ND
	ug/L	09/22/09	1	ND	ND	ND	25	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	0.80 J	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	2.8	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	3.9	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
Toluene	ug/L	12/05/94	1	ND	5	ND	ND	--	--	--	--	ND	--
NC 2L = 600 ug/L	ug/L	02/14/95	1	ND	7	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	9	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	150	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	59	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	11	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	5	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	878	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	1220	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	132	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	16	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	12	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	0.3 J	ND	1.05	ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	1.08 J	0.11 J	1.62 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	0.11 B	ND	1.30 B	ND	ND	ND	ND	ND	0.60 J
	ug/L	10/29/08	1	ND	4.33	ND	0.99 J	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	0.98 J	1.6	0.48 J	0.96 J	0.42 J	0.93 J	0.63 J	1.3	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	3.1	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	2.8	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	12/05/94	1	ND	ND	--	ND	--	--	--	--	--	--
NC 2L = 200 ug/L	ug/L	02/14/95	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	04/03/95	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	10/30/95	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	04/08/96	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	10/24/96	1	ND	--	--	ND	--	--	--	--	--	--
	ug/L	04/15/97	1	ND	--	--	ND	--	--	--	--	--	--
	ug/L	10/29/97	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	05/14/98	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	10/11/98	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	06/04/99	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	10/29/99	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	04/20/00	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	11/07/00	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	--	6	--	--	--	--	--	--
	ug/L	10/16/01	1	ND	ND	--	6	--	--	--	--	--	--
	ug/L	04/24/02	1	ND	ND	--	9	--	--	--	--	--	--
	ug/L	10/01/02	1	ND	ND	--	5	--	--	--	--	--	--
	ug/L	04/09/03	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	10/20/03	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	03/24/04	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	10/27/04	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	05/25/05	1	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	ND	ND	0.18 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	ND	0.23 J	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	1	ND	ND	ND	0.13 J	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Trichloroethene	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 3 ug/L	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	ND	2	ND	--	--	--	--	2	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	6	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	14	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	8	--	--	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	20	ND	--	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	13	ND	--	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	27	ND	--	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	26	ND	--	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	13	ND	--	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	17.5	ND	--	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	--	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	5	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	7	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	0.48 J	12	ND	0.31 J	--	--	ND	ND
	ug/L	10/02/07	1	ND	ND	0.41 J	15.5	ND	0.3 J	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	0.47 J	18.1	ND	0.28 J	0.30 J	ND	ND	ND
	ug/L	10/29/08	1	ND	ND	0.32 J	18.2	ND	0.33 J	0.45 J	ND	0.16 J	ND
	ug/L	03/24/09	1	ND	ND	ND	3.1	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	9.5	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	0.44 J	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	1.1	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	0.70 J	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	1.6	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	3.9	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 0.6 ug/L	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	ND	2.77	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 2000 ug/L	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	13	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	7	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	10	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	15	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	14	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	19	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	13	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	15	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	8	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	ND	ND	--	--	2.23 J	ND
	ug/L	04/03/08	1	ND	ND	ND	ND	ND	ND	ND	ND	1.63 J	ND
	ug/L	10/29/08	1	ND	ND	ND	ND	ND	ND	ND	ND	4.43	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ug/L	03/24/09	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SWS GPS = 88 ug/L	ug/L	09/22/09	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	50	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	50	ND	ND	ND	3.2 J	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 0.03 ug/L	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	2	5	2	--	--	--	--	1	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	0.43 J	2.35	ND	ND	0.94 J	--	--	ND	ND
	ug/L	10/02/07	1	ND	1.03 J	2.68 J	0.31 J	ND	0.89 J	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	2.94 J	ND	ND	0.98 J	0.59 J	ND	ND	ND
	ug/L	10/29/08	1	ND	0.25 J	2.36	0.49 J	ND	0.82 J	0.57 J	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	1.5	ND	ND	0.60 J	0.53 J	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	1.4	ND	ND	0.67 J	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	1.2	ND	ND	0.60 J	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	1.2	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	1.3	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	1.5	ND	ND	0.76 J	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	0.88 J	ND	ND	ND	0.55 J	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	0.57 J	0.61 J	ND	--	ND
	ug/L	03/20/13	1	ND	ND	1.0	0.77 J	ND	0.50 J	0.49 J	ND	ND	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells				Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8		AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Xylenes (Total)	ug/L	12/05/94	5	ND	70	ND	130			--	--	--	ND	--
NC 2L = 500 ug/L	ug/L	02/14/95	5	ND	68	ND	ND		--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	45	ND	47		--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	40	ND	40		--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	46	ND	35		--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	19		--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	44		--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	12	1	3		--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	65	ND	17		--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	ND	5		--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	55	ND	9		--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	8	ND	6		--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	10	ND	ND		ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	5	ND	27	ND	ND		--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	17	ND	ND		--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	40	ND	14		ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	8	ND	9		ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	15		ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	27	ND	14		ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	48	ND	10		ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	70	ND	18		ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	55	ND	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	81	ND	12		ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	48	ND	12		ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	59	ND	14		ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	2.74	ND	29.5		ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	ND	4.54	ND	34		ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	ND	ND	ND	40.6		ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	ND	0.86 J	ND	39.8		ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	5	ND	ND	ND	8.3		ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	5	ND	ND	ND	19		ND	ND	ND	ND	--	ND
	ug/L	03/22/10	5	ND	Dry	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/23/10	5	ND	5.4	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/16/11	5	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/21/11	5	ND	3.6 J	ND	2.5 J		ND	ND	ND	ND	--	ND
	ug/L	03/21/12	5	ND	ND	ND	0.98 J		ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	5	ND	ND	ND	2.2 J		ND	ND	ND	ND	--	ND
	ug/L	03/20/13	5	ND	ND	ND	6.3		ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/L	12/05/94	--	--	--	--	--		--	--	--	--	--	--
SWS GPS = 400 ug/L	ug/L	02/14/95	--	--	--	--	--		--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--		--	--	--	--	--	--
	ug/L	10/30/95	--	--	--	--	--		--	--	--	--	--	--
	ug/L	04/08/96	--	--	--	--	--		--	--	--	--	--	--
	ug/L	05/29/96	--	--	--	--	--		--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--		--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--		--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--		--	--	--	--	--	--
	ug/L	10/29/97	--	ND	120	ND	ND		--	--	--	--	ND	--
	ug/L	05/14/98	--	ND	170	ND	ND		--	--	--	--	ND	--
	ug/L	10/11/98	--	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	06/04/99	--	ND	200	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/99	--	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/20/00	--	ND	52	ND	ND		ND	--	--	--	ND	--
	ug/L	11/07/00	--	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	--	ND	14	ND	ND		ND	--	--	--	ND	--
	ug/L	10/16/01	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/24/02	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/01/02	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/09/03	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/20/03	--	ND	38	ND	ND		ND	ND	--	--	ND	--
	ug/L	03/24/04	--	ND	2440	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/27/04	--	ND	2240	ND	ND		ND	ND	--	--	ND	--
	ug/L	05/25/05	--	ND	278	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/05	--	ND	28.6	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	--	ND	82.8	ND	ND		ND	ND	--	--	ND	--
	ug/L	03/21/07	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/02/07	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/03/08	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/30/08	--	ND	ND	ND	ND		ND	ND	ND	ND	ND	--
	ug/L	03/24/09	10	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/22/10	10	ND	Dry	ND	ND		--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/16/11	10	ND	ND	ND	ND		--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/21/12	10	ND	ND	ND	ND		--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND		--	--	--	--	--	ND
Diethylphthalate	ug/L	12/05/94	--	--	--	--	--		--	--	--	--	--	--
NC 2L = 6000 ug/L	ug/L	02/14/95	--	--	--	--	--		--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--		--	--	--	--	--	--
	ug/L	10/30/95	--	--	--	--	--		--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--		--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--		--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--		--	--	--	--	--	--
	ug/L	10/29/97	--	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	05/14/98	--	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/11/98	--	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	06/04/99	--	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/99	--	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/20/00	--	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	11/07/00	--	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	02/27/01	6	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	--	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	10/16/01	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/24/02	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/01/02	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/09/03	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/20/03	--	ND	19	ND	ND		ND	ND	--	--	ND	--
	ug/L	03/24/04	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/27/04	--	ND	35.9	ND	ND		ND	ND	--	--	ND	--
	ug/L	05/25/05	--	ND	140	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/05	--	ND	548	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	--	ND	101	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	--	ND	86.6	ND	ND		ND	ND	--	--	ND	--
	ug/L	03/21/07	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/02/07	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/03/08	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/30/08	--	ND	ND	ND	ND		ND	ND	ND	ND	ND	--
	ug/L	03/24/09	10	ND	ND	ND	ND		ND	ND	1.5 J	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/22/10	10	ND	Dry	ND	ND		--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/16/11	6000	ND	ND	ND	ND		--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/21/12	6000	ND	3.1 B	ND	ND		--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND		--	--	--	--	--	ND
2,4-dimethylphenol	ug/L	12/05/94	--	--	--	--	--		--	--	--	--	--	--
NC 2L = 100 ug/L	ug/L	02/14/95	--	--	--	--	--		--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--		--	--	--	--	--	--
	ug/L	10/30/95	--	--	--	--	--		--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--		--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--		--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--		--	--	--	--	--	--
	ug/L	10/29/97	--	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	05/14/98	--	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/11/98	--	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	06/04/99	--	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/99	--	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/20/00	--	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	11/07/00	--	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	--	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	10/16/01	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/24/02	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/01/02	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/09/03	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/20/03	--	ND	19	ND	ND		ND	ND	--	--	ND	--
	ug/L	03/24/04	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/27/04	--	ND	35.9	ND	ND		ND	ND	--	--	ND	--
	ug/L	05/25/05	--	ND	140	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/05	--	ND	548	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	--	ND	101	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	--	ND	86.6	ND	ND		ND	ND	--	--	ND	--
	ug/L	03/21/07	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/02/07	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/03/08	--	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/30/08	--	ND	ND	ND	ND		ND	ND	ND	ND	ND	--
	ug/L	03/24/09	10	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/22/10	10	ND	Dry	ND	ND		--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/16/11	10	ND	ND	ND	ND		--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/21/12	10	ND	4.0 J	ND	ND		--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND		--	--	--	--	--	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Bis(2-ethylhexyl)phthalate	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 3 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	10/16/01	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/24/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/22/10	15	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	15	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	15	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/12	15	1.8 B	7.0 B	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	15	ND	ND	ND	ND	--	--	--	--	--	ND
Di-n-octylphthalate	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 100 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	10/16/01	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/24/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/22/10	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	10	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/12	10	ND	6.6 J	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	-	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	--	--	--	ND
Phenol	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 30 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/29/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	ND	240	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	ND	1400	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	--	ND	3100	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	--	ND	190	ND	ND	15	--	--	--	ND	--
	ug/L	11/07/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	10/16/01	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/24/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	--	ND	13200	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	--	ND	16400	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	--	ND	105	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	--	ND	26.8	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	--	--	--	ND
3 &4-methylphenol	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
NC 2L Standard = 400/40 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/08/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/29/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	ND	140	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	ND	160	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	--	ND	260	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	--	ND	57	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	10/16/01	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/24/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	--	ND	27	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	--	ND	1930	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	--	ND	2880	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	--	ND	398	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	--	ND	109	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	--	ND	25.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	--	ND	16.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	--	ND	4.26 J	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	10	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	--	--	--	ND
2,4-D	ug/L	03/24/09	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NC 2L = 70 ug/L	ug/L	03/22/10	2	ND	Dry	ND	ND	-	-	-	-	--	ND
	ug/L	03/16/11	2	ND	ND	ND	ND	-	-	-	-	--	ND
	ug/L	09/21/11	2	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/12	2	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	2	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/20/13	2	ND	ND	0.75 J	ND	--	--	--	--	--	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Sulfide	ug/L	12/05/94	1	--	--	--	--	--	--	--	--	--	--
No Standard	ug/L	02/14/95	1	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	1	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	1	300	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/29/96	1	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	1	200	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	1	--	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	1	--	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	1	--	--	--	--	--	--	--	--	--	--
	ug/L	10/11/98	1	--	--	--	--	--	--	--	--	--	--
	ug/L	06/04/99	1	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/99	1	--	--	--	--	--	--	--	--	--	--
	ug/L	04/20/00	1	--	--	--	--	--	--	--	--	--	--
	ug/L	11/07/00	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	06/05/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	06/21/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	10/16/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	04/24/02	1	--	--	--	--	--	--	--	--	--	--
	ug/L	10/01/02	1	--	--	--	--	--	--	--	--	--	--
	ug/L	04/09/03	1	--	--	--	--	--	--	--	--	--	--
	ug/L	10/20/03	1	--	--	--	--	--	--	--	--	--	--
	ug/L	03/24/04	1	--	--	--	--	--	--	--	--	--	--
	ug/L	10/27/04	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/25/05	1	--	--	--	--	--	--	--	--	--	--
	ug/L	10/04/05	1	--	--	--	--	--	--	--	--	--	--
	ug/L	04/25/06	1	--	--	--	--	--	--	--	--	--	--
	ug/L	10/04/06	1	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/07	1	--	--	--	--	--	--	--	--	--	--
	ug/L	10/02/07	1	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/08	1	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/08	1	--	--	--	--	--	--	--	--	--	--
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	mg/L	09/22/09	1	ND	0.28 J	ND	ND	--	--	--	--	--	ND
	mg/L	03/22/10	1	ND	Dry	ND	ND	-	-	-	-	--	ND
	mg/L	03/16/11	1	ND	ND	ND	ND	-	-	-	-	--	ND
	mg/L	09/21/11	1	--	--	--	--	--	--	--	--	--	ND
	mg/L	03/21/12	1	ND	ND	ND	ND	--	--	--	--	--	ND
	mg/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	mg/L	03/20/13	1	ND	ND	ND	ND	--	--	--	--	--	ND
pH (field)	S.U.	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	S.U.	10/04/06	--	5.81	6.06	5.54	5.90	6.17	6.15	--	--	5.35	--
	S.U.	03/21/07	--	--	--	--	--	--	--	--	--	--	--
	S.U.	10/02/07	--	5.60	5.88	5.28	5.23	5.81	5.90	--	--	5.37	--
	S.U.	04/03/08	--	5.76	6.05	5.30	5.63	6.00	5.95	6.24	7.35	4.93	--
	S.U.	10/29/08	--	--	--	--	--	--	--	--	--	--	--
	S.U.	03/24/09	--	6.94	6.43	6.42	6.64	6.21	6.82	7.11	7.56	6.31	--
	S.U.	09/22/09	--	5.58	5.32	5.60	5.72	5.87	5.91	5.92	6.27	--	--
	S.U.	03/22/10	--	5.58	Dry	5.44	6.01	6.07	5.62	5.98	6.40	--	--
	S.U.	09/23/10	--	5.48	6.00	5.67	6.04	5.27	5.79	5.85	6.26	--	--
	S.U.	03/16/11	--	5.53	5.91	5.74	6.15	5.29	5.93	6.08	6.42	--	--
	S.U.	09/21/11	--	5.65	6.01	5.92	5.88	5.11	5.88	6.38	6.44	--	--
	S.U.	03/21/12	--	5.92	5.67	5.79	5.61	4.76	5.79	6.01	6.26	4.86	--
	S.U.	09/20/12	--	5.94	6.81	7.20	5.39	6.20	6.62	7.38	7.69	--	--
	S.U.	03/20/13	--	5.60	6.11	6.02	6.21	5.84	6.06	5.95	6.31	4.85	--
Conductivity (field)	uS/cm	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	uS/cm	10/04/06	--	90	953	319	530	531	395	--	--	56	--
	uS/cm	03/21/07	--	--	--	--	--	--	--	--	--	--	--
	uS/cm	10/02/07	--	115	451	189	319	715	597	--	--	85	--
	uS/cm	04/03/08	--	98	250	197	552	597	585	243	140	59	--
	uS/cm	10/29/08	--	--	--	--	--	--	--	--	--	--	--
	uS/cm	03/24/09	--	110	150	330	730	200	650	610	130	120	--
	uS/cm	09/22/09	--	101	125	340	661	441	675	277	111	--	--
	uS/cm	03/22/10	--	148	Dry	339	884	89	560	248	109	--	--
	uS/cm	09/23/10	--	181	1262	451	999	93	603	219	124	--	--
	uS/cm	03/16/11	--	166	92	431	529	140	589	259	119	--	--
	uS/cm	09/21/11	--	146	1228	494	989	94	563	282	114	--	--
	uS/cm	03/21/12	--	124	992	455	845	188	504	251	93	127	--
	uS/cm	09/20/12	--	116	257	468	488	209	513	251	111	--	--
	uS/cm	03/20/13	--	90	147	510	863	211	479	238	82	113	--
Temperature (field)	Celsius	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	Celsius	10/04/06	--	13.8	16.6	18.0	15.7	15.4	14.7	--	--	13.7	--
	Celsius	03/21/07	--	--	--	--	--	--	--	--	--	--	--
	Celsius	10/02/07	--	14.1	17.4	17.9	16.0	15.1	14.8	--	--	13.6	--
	Celsius	04/03/08	--	13.2	12.1	16.5	15.5	13.0	12.4	13.01	15.30	13.1	--
	Celsius	10/29/08	--	--	--	--	--	--	--	--	--	--	--
	Celsius	03/24/09	--	12.6	14.9	18.5	17.3	17.6	16.8	13.6	11.9	13.7	--
	Celsius	09/22/09	--	16.7	19.95	19.91	22.78	17.31	16.68	17.22	17.47	--	--
	Celsius	03/22/10	--	13.17	Dry	14.97	11.76	10.08	10.97	9.33	7.41	--	--
	Celsius	09/23/10	--	14.92	19.69	18.65	18.77	16.25	15.78	17.11	18.35	--	--
	Celsius	03/16/11	--	12.61	9.68	15.64	15.08	11.96	11.95	10.02	9.24	--	--
	Celsius	09/21/11	--	14.32	17.37	17.38	16.06	16.29	15.85	17.06	17.34	--	--
	Celsius	03/21/12	--	15.20	14.46	16.53	17.08	15.47	15.45	13.25	12.95	14.46	--
	Celsius	09/20/12	--	14.11	17.35	17.30	15.92	16.86	17.05	16.76	18.16	--	--
	Celsius	03/20/13	--	12.82	13.84	16.78	16.17	12.68	13.26	10.12	9.10	11.54	--
Turbidity (field)	NTU	03/24/09	--	59.0	60.5	29.1	83.9	18.8	4.37	41.1	17.2	9.04	--
	NTU	09/22/09	--	39.1	11.6	23.7	97.6	20.2	6.68	91.0	46.0	--	--
	NTU	03/22/10	--	73.8	Dry	17.0	33.8	19.0	9.68	24.8	18.4	--	--
	NTU	09/23/10	--	48.4	11.0	24.3	51.1	12.8	4.35	34.2	6.63	--	--
	NTU	03/16/11	--	51.7	38.9	5.93	30.8	12.4	0.77	14.2	5.17	--	--
	NTU	09/21/11	--	40.1	140	64.9	280	10.3	2.18	64.9	3.41	--	--
	NTU	03/21/12	--	88.2	54.9	8.27	15.5	6.71	4.33	6.57	4.51	24.9	--
	NTU	09/20/12	--	257	30.2	82.8	90.0	85.1	16.7	163	6.46	--	--
	NTU	03/20/13	--	107	93.6	71.4	89.5	5.15	1.74	5.25	1.08	4.20	--

Notes:

ug/L = micrograms per liter
mg/L = milligrams per liter
NTU = Nephelometric Turbidity Units
mV = millivolts
S.U. = Standard Units
ND = Not detected at the stated reporting limit
NM = Not measured
J = estimated concentration
B = Blank-qualified result
-- = no data available
Blanks = field, trip and method blanks
Shaded = concentrations above the NC 2L Groundwater Standards or Solid Waste Section Groundwater Protection Standards (SWS GPS) have been shaded.
SWS Reporting Limit = NCPQL or lab-specific reporting limit prior to October 2007 and NCSWSL starting in October 2007
1) Historical data prior to March 2009 provided by Henderson County and CDM.

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks	
				MW-10		MW-11		MW-12		MW-13			
Antimony	ug/L	03/24/09	6	ND		ND		ND		ND		ND	
SWS GPS = 1 ug/L	ug/L	09/22/09	6	ND		ND		0.098	J	ND		ND	
	ug/L	03/24/10	6	ND		ND		ND		ND		ND	
	ug/L	09/22/10	6	ND		ND		ND		ND		ND	
	ug/L	03/16/11	6	ND		ND		0.248	J	0.360	J	ND	
	ug/L	09/21/11	6	0.255	J	--		ND		0.609	J	ND	
	ug/L	03/21/12	6	0.365	J	0.965	J	ND		ND		ND	
	ug/L	09/20/12	6	ND		ND		ND		ND		ND	
	ug/L	03/20/13	6	ND		0.323	J	ND		ND		ND	
Arsenic	ug/L	06/21/01	10	ND		ND		ND		ND		--	
NC 2L = 10 ug/L	ug/L	04/24/02	10	ND		ND		ND		ND		--	
	ug/L	10/01/02	10	ND		ND		ND		ND		--	
	ug/L	04/10/03	10	ND		ND		ND		ND		--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	
	ug/L	10/05/05	10	ND		ND		ND		ND		--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	
	ug/L	10/05/06	10	ND		ND		ND		ND		ND	
	ug/L	03/21/07	10	ND		ND		ND		ND		ND	
	ug/L	10/02/07	10	2.79	J	ND		ND		4.85	J	ND	
	ug/L	04/01/08	10	10.1		3.01	J	6.29	J	9.48	J	ND	
	ug/L	10/29/08	10	ND		ND		ND		ND		ND	
	ug/L	03/24/09	10	ND		ND		ND		ND		ND	
	ug/L	09/22/09	10	ND		3.81	J	3.64	J	ND		ND	
	ug/L	03/24/10	10	ND		ND		ND		ND		ND	
	ug/L	09/22/10	10	ND		ND		ND		ND		ND	
	ug/L	03/16/11	10	ND		ND		ND		ND		ND	
	ug/L	09/21/11	10	ND		--		ND		ND		ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		ND	
	ug/L	09/20/12	10	ND		ND		ND		ND		3.27	J
	ug/L	03/20/13	10	ND		ND		3.23	J	ND		ND	
Barium	ug/L	06/21/01	100	ND		ND		ND		ND		--	
NC 2L = 700 ug/L	ug/L	04/24/02	100	278		ND		306		ND		--	
	ug/L	10/01/02	100	ND		ND		ND		ND		--	
	ug/L	04/10/03	100	ND		ND		ND		ND		--	
	ug/L	10/20/03	100	ND		ND		ND		ND		--	
	ug/L	03/24/04	100	ND		ND		ND		ND		--	
	ug/L	10/27/04	100	ND		ND		ND		ND		--	
	ug/L	05/25/05	100	ND		ND		ND		ND		--	
	ug/L	10/05/05	100	ND		ND		ND		ND		--	
	ug/L	04/25/06	100	ND		ND		ND		ND		--	
	ug/L	10/05/06	100	ND		ND		ND		ND		ND	
	ug/L	03/21/07	100	19.5	J	25.0	J	19.7	J	20.0	J	ND	
	ug/L	10/02/07	100	12.0	J	24.7	J	15.6	J	28.2	J	ND	
	ug/L	04/01/08	100	49.5	J	63.1	J	27.6	J	153		ND	
	ug/L	10/29/08	100	5.81	J	150		26.1	J	68.7	J	ND	
	ug/L	03/24/09	100	15.8	J	61.2	J	25.9	J	19.8	J	ND	
	ug/L	09/22/09	100	5.04	J	75.9	J	26.0	J	14.9	J	ND	
	ug/L	03/24/10	100	2.75	B	33.7	J	14.3	J	12.1	J	1.54	J
	ug/L	09/22/10	100	26.1	J	23.0	J	9.25	J	12.5	J	ND	
	ug/L	03/16/11	100	59.1	J	32.5	J	18.0	J	12.6	J	ND	
	ug/L	09/21/11	100	2.53	J	--		13.7	J	12.2	J	ND	
	ug/L	03/21/12	100	1.99	J	46.7	J	16.8	J	11.9	J	ND	
	ug/L	09/20/12	100	2.07	J	72.8	J	13.7	J	12.4	J	ND	
	ug/L	03/20/13	100	1.42	B	48.2	J	12.8	J	20.7	J	1.34	J
Beryllium	ug/L	03/24/09	1	0.32	J	1.19		0.46	J	0.09	J	ND	
SWS GPS = 4 ug/L	ug/L	09/22/09	1	0.190	B	1.02		0.682	J	0.117	B	0.113	
	ug/L	03/24/10	1	0.178	J	1.46		0.130	J	ND		ND	
	ug/L	09/22/10	1	ND		0.882	J	0.120	J	ND		ND	
	ug/L	03/16/11	1	0.753	J	0.941	J	0.117	J	ND		ND	
	ug/L	09/21/11	1	ND		--		ND		ND		ND	
	ug/L	03/21/12	1	ND		0.869	J	0.118	J	ND		ND	
	ug/L	09/20/12	1	ND		1.04		ND		ND		ND	
	ug/L	03/20/13	1	ND		0.785	J	0.102	J	ND		ND	

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks
				MW-10		MW-11		MW-12		MW-13		
Cadmium	ug/L	06/21/01	1	ND		ND		ND		ND		--
NC 2L = 2 ug/L	ug/L	04/24/02	1	ND		ND		ND		ND		--
	ug/L	10/01/02	1	ND		ND		ND		ND		--
	ug/L	04/10/03	1	ND		ND		ND		ND		--
	ug/L	10/20/03	1	ND		ND		ND		ND		--
	ug/L	03/24/04	1	ND		ND		ND		ND		--
	ug/L	10/27/04	1	ND		ND		ND		ND		--
	ug/L	05/25/05	1	ND		ND		ND		ND		--
	ug/L	10/05/05	1	ND		ND		ND		ND		--
	ug/L	04/25/06	1	ND		ND		ND		ND		--
	ug/L	10/05/06	1	ND		ND		ND		ND		ND
	ug/L	03/21/07	1	0.750	J	1.31	J	2.31	J	2.15	J	ND
	ug/L	10/02/07	1	ND		ND		2.90	J	ND		ND
	ug/L	04/01/08	1	ND		ND		ND		0.53	J	ND
	ug/L	10/29/08	1	ND		0.35	J	ND		ND		ND
	ug/L	03/24/09	1	ND		0.27	J	0.14	J	ND		ND
	ug/L	09/22/09	1	ND		1.15		0.461	J	1.00		ND
	ug/L	03/24/10	1	ND		ND		ND		ND		ND
	ug/L	09/22/10	1	ND		ND		ND		ND		ND
	ug/L	03/16/11	1	ND		ND		ND		ND		ND
	ug/L	09/21/11	1	ND		--		0.402	J	ND		ND
	ug/L	03/21/12	1	ND		ND		0.774	J	ND		ND
	ug/L	09/20/12	1	ND		ND		ND		ND		ND
	ug/L	03/20/13	1	ND		ND		ND		ND		ND
Chromium	ug/L	06/21/01	10	ND		ND		ND		23.8		--
NC 2L = 10 ug/L	ug/L	04/24/02	10	ND		ND		ND		ND		--
	ug/L	10/01/02	10	ND		ND		ND		ND		--
	ug/L	04/10/03	10	ND		ND		ND		ND		--
	ug/L	10/20/03	10	ND		ND		ND		13.5		--
	ug/L	03/24/04	10	ND		ND		ND		12.8		--
	ug/L	10/27/04	10	ND		ND		ND		ND		--
	ug/L	05/25/05	10	ND		ND		ND		ND		--
	ug/L	10/05/05	10	ND		ND		ND		ND		--
	ug/L	04/25/06	10	ND		ND		ND		ND		--
	ug/L	10/05/06	10	ND		ND		ND		ND		ND
	ug/L	03/21/07	10	3.41	J	3.26	J	3.55	J	2.97	J	ND
	ug/L	10/02/07	10	2.28	J	1.17	J	2.08	J	3.80	J	ND
	ug/L	04/01/08	10	5.80	J	3.56	J	3.07	J	103		ND
	ug/L	10/29/08	10	ND		ND		1.77	J	19.0		ND
	ug/L	03/24/09	10	1.0	J	ND		1.2	J	3.0	J	ND
	ug/L	09/22/09	10	ND		ND		ND		ND		ND
	ug/L	03/24/10	10	ND		ND		ND		ND		ND
	ug/L	09/22/10	10	1.18	J	ND		ND		ND		ND
	ug/L	03/16/11	10	5.18	J	ND		ND		ND		ND
	ug/L	09/21/11	10	ND		--		ND		ND		ND
	ug/L	03/21/12	10	ND		ND		ND		ND		ND
	ug/L	09/20/12	10	ND		1.80	J	ND		ND		ND
	ug/L	03/20/13	10	ND		ND		ND		ND		ND
Cobalt	ug/L	03/24/09	10	0.8	J	ND		1.1	J	ND		ND
SWS GPS = 1 ug/L	ug/L	09/22/09	10	ND		ND		1.28	J	ND		ND
	ug/L	03/24/10	10	ND		4.30	J	ND		ND		ND
	ug/L	09/22/10	10	2.10	J	2.89	J	1.87	J	ND		ND
	ug/L	03/16/11	10	3.28	J	2.05	J	ND		ND		ND
	ug/L	09/21/11	10	ND		--		ND		ND		ND
	ug/L	03/21/12	10	ND		ND		ND		ND		ND
	ug/L	09/20/12	10	ND		1.37	J	1.55	J	1.11	J	ND
	ug/L	03/20/13	10	ND		1.54	J	ND		2.35	J	ND
Copper	ug/L	03/24/09	10	3.42	J	ND		ND		ND		ND
NC 2L =1000 ug/L	ug/L	09/22/09	10	ND		ND		ND		1.82	J	ND
	ug/L	03/24/10	10	ND		2.76	J	ND		ND		ND
	ug/L	09/22/10	10	3.49	J	ND		ND		ND		ND
	ug/L	03/16/11	10	15.9		2.55	J	3.09	J	4.85	J	ND
	ug/L	09/21/11	10	ND		--		ND		1.80	J	ND
	ug/L	03/21/12	10	ND		ND		ND		ND		ND
	ug/L	09/20/12	10	ND		ND		ND		ND		ND
	ug/L	03/20/13	10	ND		ND		1.97	J	ND		ND

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks	
				MW-10		MW-11		MW-12		MW-13			
Lead	ug/L	06/21/01	10	14.2		ND		ND		10.4		--	
NC 2L = 15 ug/L	ug/L	04/24/02	10	ND		ND		ND		ND		--	
	ug/L	10/01/02	10	ND		ND		ND		ND		--	
	ug/L	04/10/03	10	ND		ND		ND		ND		--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	
	ug/L	05/25/05	10	10.3		ND		ND		ND		--	
	ug/L	10/05/05	10	ND		ND		ND		ND		--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	
	ug/L	10/05/06	10	ND		ND		ND		ND		ND	
	ug/L	03/21/07	10	3.32	J	3.57	J	2.12	J	ND		ND	
	ug/L	10/02/07	10	ND		ND		ND		ND		ND	
	ug/L	04/01/08	10	13.1		9.16	J	ND		25.1		ND	
	ug/L	10/29/08	10	6.51	J	ND		8.35	J	9.00	J	ND	
	ug/L	03/24/09	10	4.4	J	3.7	J	3.1	J	3.9	J	ND	
	ug/L	09/22/09	10	2.40	J	ND		3.84	J	ND		ND	
	ug/L	03/24/10	10	ND		ND		2.18	J	ND		ND	
	ug/L	09/22/10	10	2.56	J	ND		ND		ND		ND	
	ug/L	03/16/11	10	12.8		2.55	J	ND		2.29	J	ND	
	ug/L	09/21/11	10	ND		--		ND		ND		ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		ND	
	ug/L	09/20/12	10	ND		ND		ND		ND		2.70	J
	ug/L	03/20/13	10	ND		ND		ND		ND		ND	
Mercury	ug/L	06/21/01	0.2	ND		ND		ND		ND		--	
NC 2L = 1 ug/L	ug/L	04/24/02	0.2	ND		ND		ND		ND		--	
	ug/L	10/01/02	0.2	ND		ND		ND		ND		--	
	ug/L	04/10/03	0.2	ND		ND		ND		ND		--	
	ug/L	10/20/03	0.2	ND		ND		ND		ND		--	
	ug/L	03/24/04	0.2	ND		ND		ND		ND		--	
	ug/L	10/27/04	0.2	ND		ND		ND		ND		--	
	ug/L	05/25/05	0.2	ND		ND		ND		ND		--	
	ug/L	10/05/05	0.2	ND		ND		ND		ND		--	
	ug/L	04/25/06	0.2	ND		ND		ND		ND		--	
	ug/L	10/05/06	0.2	ND		ND		ND		ND		ND	
	ug/L	03/21/07	0.2	ND		ND		0.093	J	ND		ND	
	ug/L	10/02/07	0.2	ND		ND		0.136	J	ND		ND	
	ug/L	04/01/08	0.2	ND		ND		0.096	J	ND		ND	
	ug/L	10/29/08	0.2	ND		ND		0.198	J	ND		ND	
	ug/L	03/24/09	0.2	ND		ND		0.54		ND		ND	
	ug/L	09/22/09	0.2	ND		ND		0.172	J	ND		ND	
	ug/L	03/24/10	0.2	ND		0.0586	J	0.144	J	ND		ND	
	ug/L	09/22/10	0.2	ND		ND		ND		ND		ND	
	ug/L	03/16/11	0.2	ND		ND		ND		ND		ND	
	ug/L	09/21/11	0.2	ND		--		ND		ND		ND	
	ug/L	03/21/12	0.2	ND		ND		ND		ND		ND	
	ug/L	09/20/12	0.2	ND		ND		0.253		ND		ND	
	ug/L	03/20/13	0.2	ND		ND		0.199	J	ND		ND	
Nickel	ug/L	03/24/09	50	0.7	J	ND		1.1	J	1.0	J	ND	
NC 2L = 100 ug/L	ug/L	09/22/09	50	ND		ND		ND		1.88	J	ND	
	ug/L	03/24/10	50	ND		ND		ND		ND		ND	
	ug/L	09/22/10	50	ND		ND		ND		ND		ND	
	ug/L	03/16/11	50	3.91	J	ND		ND		ND		ND	
	ug/L	09/21/11	50	ND		--		ND		ND		ND	
	ug/L	03/21/12	50	ND		ND		ND		ND		ND	
	ug/L	09/20/12	50	ND		3.07	J	ND		ND		ND	
	ug/L	03/20/13	50	ND		ND		ND		ND		ND	

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells								Blanks	
				MW-10		MW-11		MW-12		MW-13					
Selenium	ug/L	06/21/01	10	ND		ND		ND		ND				--	
NC 2L = 20 ug/L	ug/L	04/24/02	10	ND		ND		ND		ND				--	
	ug/L	10/01/02	10	ND		ND		ND		ND				--	
	ug/L	04/10/03	10	ND		ND		ND		ND				--	
	ug/L	10/20/03	10	ND		ND		ND		ND				--	
	ug/L	03/24/04	10	ND		ND		ND		ND				--	
	ug/L	10/27/04	10	ND		ND		ND		ND				--	
	ug/L	05/25/05	10	ND		ND		ND		ND				--	
	ug/L	10/05/05	10	ND		ND		ND		ND				--	
	ug/L	04/25/06	10	ND		ND		ND		ND				--	
	ug/L	10/05/06	10	ND		ND		ND		ND				ND	
	ug/L	03/21/07	10	ND		ND		ND		10.2	J			ND	
	ug/L	10/02/07	10	ND		ND		ND		ND				ND	
	ug/L	04/01/08	10	ND		ND		ND		19.2				ND	
	ug/L	10/29/08	10	ND		ND		ND		ND				ND	
	ug/L	03/24/09	10	ND		ND		ND		ND				ND	
	ug/L	09/22/09	10	ND		ND		ND		ND				ND	
	ug/L	03/24/10	10	ND		ND		ND		ND				ND	
	ug/L	09/22/10	10	ND		ND		ND		ND				ND	
	ug/L	03/16/11	10	ND		ND		ND		ND				3.32	J
	ug/L	09/21/11	10	ND		--		ND		ND				ND	
	ug/L	03/21/12	10	ND		ND		ND		ND				ND	
	ug/L	09/20/12	10	ND		ND		ND		ND				ND	
	ug/L	03/20/13	10	ND		ND		ND		ND				ND	
Silver	ug/L	06/21/01	10	ND		ND		ND		ND				--	
NC 2L = 20 ug/L	ug/L	04/24/02	10	ND		ND		ND		ND				--	
	ug/L	10/01/02	10	ND		ND		ND		ND				--	
	ug/L	04/10/03	10	ND		ND		ND		ND				--	
	ug/L	10/20/03	10	ND		ND		ND		ND				--	
	ug/L	03/24/04	10	ND		ND		ND		ND				--	
	ug/L	10/27/04	10	ND		ND		ND		ND				--	
	ug/L	05/25/05	10	ND		ND		ND		ND				--	
	ug/L	10/05/05	10	ND		ND		ND		ND				--	
	ug/L	04/25/06	10	ND		ND		ND		ND				--	
	ug/L	10/05/06	10	ND		ND		ND		ND				ND	
	ug/L	03/21/07	10	3.49	J	3.41	J	3.04	J	2.96	J			ND	
	ug/L	10/02/07	10	ND		ND		ND		ND				ND	
	ug/L	04/01/08	10	4.12	J	4.48	J	4.07	J	3.65	J			ND	
	ug/L	10/29/08	10	1.57	B	1.80	B	1.40	B	1.52	B			--	
	ug/L	03/24/09	10	ND		1.2	J	ND		ND				ND	
	ug/L	09/22/09	10	ND		ND		ND		ND				ND	
	ug/L	03/24/10	10	ND		ND		ND		ND				ND	
	ug/L	09/22/10	10	ND		ND		ND		ND				ND	
	ug/L	03/16/11	10	ND		ND		ND		ND				ND	
	ug/L	09/21/11	10	ND		--		ND		ND				ND	
	ug/L	03/21/12	10	ND		ND		ND		ND				ND	
	ug/L	09/20/12	10	ND		ND		ND		ND				ND	
	ug/L	03/20/13	10	ND		ND		ND		ND				2.11	J
Thallium	ug/L	03/24/09	5.5	ND		ND		0.061	B	ND				0.092	J
NC 2L = 0.28 ug/L	ug/L	09/22/09	5.5	ND		ND		ND		ND				ND	
	ug/L	03/24/10	5.5	ND		ND		ND		ND				ND	
	ug/L	09/22/10	5.5	ND		ND		ND		ND				ND	
	ug/L	03/16/11	5.5	ND		ND		ND		ND				ND	
	ug/L	09/21/11	5.5	ND		--		ND		ND				ND	
	ug/L	03/21/12	5.5	ND		ND		ND		ND				ND	
	ug/L	09/20/12	6	ND		ND		ND		ND				ND	
	ug/L	03/20/13	6	ND		ND		ND		ND				ND	
Tin	ug/L	09/21/11	100	ND		--		4.60	J	3.17	J			ND	
SWS GPS = 2000 ug/L	ug/L	03/21/12	100	ND		2.92	J	3.64	J	3.49	J			ND	
Vanadium	ug/L	03/24/09	25	4.9	J	1.0	J	6.5	J	3.3	J			ND	
SWS GPS = 0.3 ug/L	ug/L	09/22/09	25	2.01	J	ND		6.20	J	2.01	J			ND	
	ug/L	03/24/10	25	ND		2.62	J	1.57	J	ND				ND	
	ug/L	09/22/10	25	7.06	J	ND		ND		1.64	J			ND	
	ug/L	03/16/11	25	19.5	J	1.76	J	3.03	J	ND				ND	
	ug/L	09/21/11	25	ND		--		2.32	J	ND				ND	
	ug/L	03/21/12	25	ND		2.19	J	3.02	J	1.52	J			ND	
	ug/L	09/20/12	25	ND		2.85	J	ND		ND				ND	
	ug/L	03/20/13	25	ND		2.34	J	ND		1.91	J			ND	

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks	
				MW-10		MW-11		MW-12		MW-13			
Zinc	ug/L	03/24/09	10	8.0	B	9.0	B	17.9		7.2	B	3.4	
NC 2L = 1000 ug/L	ug/L	09/22/09	10	ND		32.4		17.3		12.0		ND	
	ug/L	03/24/10	10	13.2		20.0		21.5		12.2		ND	
	ug/L	09/22/10	10	14.8		7.45	J	6.78	J	10.5		ND	
	ug/L	03/16/11	10	43.2		4.05	J	12.5		26.0		ND	
	ug/L	09/21/11	10	ND		--		12.0		12.5		ND	
	ug/L	03/21/12	10	ND		92.0		6.44	J	ND		ND	
	ug/L	09/20/12	10	ND		22.2		ND		ND		ND	
	ug/L	03/20/13	10	9.34	J	11.2		11.9		8.08	J	ND	
Iron	ug/L	03/24/09	300	2750		1400		4810		1670		ND	
NC 2L = 300 ug/L	ug/L	09/22/09	300	684		1390		4450		735		ND	
	ug/L	03/24/10	300	151	J	2050		830		564		27.6	
	ug/L	09/22/10	300	4690		630		841		658		ND	
	ug/L	03/16/11	300	14200		1770		1600		462		ND	
	ug/L	09/21/11	300	153	J	--		269	J	457		ND	
	ug/L	03/21/12	300	81.3	B	4460		1260		245	J	44.0	J
	ug/L	09/20/12	300	36.2	J	4040		133	J	91.7	J	ND	
	ug/L	03/20/13	300	22.2	J	4530		594		2040		ND	
Manganese	ug/L	03/24/09	50	60.9		165		155		59.1		ND	
NC 2L = 50 ug/L	ug/L	09/22/09	50	18.1	J	186		163		34.9	J	1.99	
	ug/L	03/24/10	50	4.51	B	1780		142		111		2.13	
	ug/L	09/22/10	50	121		923		743		58.4		3.27	J
	ug/L	03/16/11	50	356		349		389		116		3.57	J
	ug/L	09/21/11	50	8.27	J	--		239		66.2		ND	
	ug/L	03/21/12	50	3.45	B	164		295		88.3		2.02	J
	ug/L	09/20/12	50	1.43	J	256		163		74.2		ND	
	ug/L	03/20/13	50	2.22	B	262		285		286		7.96	J
Acetone	ug/L	03/24/09	100	ND		ND		3.8	J	ND		ND	
NC 2L = 6000 ug/L	ug/L	09/22/09	100	ND		ND		ND		ND		ND	
	ug/L	03/24/10	100	ND		19	J	13	J	ND		ND	
	ug/L	09/22/10	100	ND		4.5	J	2.7	J	ND		ND	
	ug/L	03/16/11	100	ND		92	J	17	J	ND		ND	
	ug/L	09/21/11	100	ND		--		18	J	ND		ND	
	ug/L	03/21/12	100	ND		7.5	J	30	J	ND		ND	
	ug/L	09/20/12	100	ND		4.3	B	9.9	B	ND		7.0	J
	ug/L	03/20/13	100	ND		ND		6.8	J	ND		ND	
Benzene	ug/L	06/21/01	1	ND		ND		ND		ND		--	
NC 2L = 1 ug/L	ug/L	04/24/02	1	ND		ND		ND		ND		--	
	ug/L	10/01/02	1	ND		ND		ND		ND		--	
	ug/L	04/10/03	1	ND		ND		ND		ND		--	
	ug/L	10/20/03	1	ND		ND		ND		ND		--	
	ug/L	03/24/04	1	ND		ND		ND		ND		--	
	ug/L	10/27/04	1	ND		ND		ND		ND		--	
	ug/L	05/25/05	1	ND		ND		ND		ND		--	
	ug/L	10/05/05	1	ND		ND		ND		ND		--	
	ug/L	04/25/06	1	ND		ND		ND		ND		--	
	ug/L	10/05/06	1	ND		ND		ND		ND		ND	
	ug/L	03/21/07	1	ND		ND		ND		ND		ND	
	ug/L	10/02/07	1	ND		ND		0.15	J	ND		ND	
	ug/L	04/01/08	1	ND		ND		0.28	J	ND		ND	
	ug/L	10/29/08	1	ND		ND		0.28	J	ND		ND	
	ug/L	03/24/09	1	ND		ND		ND		ND		ND	
	ug/L	09/22/09	1	ND		0.50	J	ND		ND		ND	
	ug/L	03/24/10	1	ND		ND		ND		ND		ND	
	ug/L	09/22/10	1	ND		ND		ND		ND		ND	
	ug/L	03/16/11	1	ND		ND		ND		ND		ND	
	ug/L	09/21/11	1	ND		--		ND		ND		ND	
	ug/L	03/21/12	1	ND		ND		ND		ND		ND	
	ug/L	09/20/12	1	ND		ND		ND		ND		ND	
	ug/L	03/20/13	1	ND		ND		ND		ND		ND	
Carbon disulfide	ug/L	03/24/09	100	ND		ND		ND		ND		ND	
NC 2L = 700 ug/L	ug/L	09/22/09	100	ND		ND		ND		ND		ND	
	ug/L	03/24/10	100	ND		ND		ND		ND		ND	
	ug/L	09/22/10	100	ND		ND		ND		ND		ND	
	ug/L	03/16/11	100	ND		ND		ND		ND		ND	
	ug/L	09/21/11	100	ND		--		ND		ND		ND	
	ug/L	03/21/12	100	ND		ND		ND		ND		ND	
	ug/L	09/20/12	100	ND		6.7	J	ND		ND		ND	
	ug/L	03/20/13	100	ND		ND		ND		ND		ND	

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well	Downgradient Wells				Blanks
				MW-10	MW-11	MW-12	MW-13		
Chloroethane	ug/L	06/21/01	10	ND	ND	ND	ND		--
SWS GPS = 3000 ug/L	ug/L	04/24/02	10	ND	ND	ND	ND		--
	ug/L	10/01/02	10	ND	ND	ND	ND		--
	ug/L	04/10/03	10	ND	ND	ND	ND		--
	ug/L	10/20/03	10	ND	ND	ND	ND		--
	ug/L	03/24/04	10	ND	ND	ND	ND		--
	ug/L	10/27/04	10	ND	ND	ND	ND		--
	ug/L	05/25/05	10	ND	ND	ND	ND		--
	ug/L	10/05/05	10	ND	ND	ND	ND		--
	ug/L	04/25/06	10	ND	ND	ND	ND		--
	ug/L	10/05/06	10	ND	ND	ND	ND		ND
	ug/L	03/21/07	10	ND	ND	0.84	ND	J	ND
	ug/L	10/02/07	10	ND	ND	1.08	ND	J	ND
	ug/L	04/01/08	10	ND	ND	ND	ND		ND
	ug/L	10/29/08	10	ND	ND	1.60	ND	J	ND
	ug/L	03/24/09	10	ND	ND	ND	ND		ND
	ug/L	09/22/09	10	ND	ND	ND	ND		ND
	ug/L	03/24/10	10	ND	ND	ND	ND		ND
	ug/L	09/22/10	10	ND	ND	0.95	ND	J	ND
	ug/L	03/16/11	10	ND	ND	ND	ND		ND
	ug/L	09/21/11	10	ND	--	ND	ND		ND
	ug/L	03/21/12	10	ND	ND	ND	ND		ND
	ug/L	09/20/12	10	ND	ND	ND	ND		ND
	ug/L	03/20/13	10	ND	ND	ND	ND		ND
1,4-Dichlorobenzene	ug/L	06/21/01	1	ND	ND	ND	ND		--
NC 2L = 6 ug/L	ug/L	04/24/02	1	ND	ND	ND	ND		--
	ug/L	10/01/02	1	ND	ND	ND	ND		--
	ug/L	04/10/03	1	ND	ND	ND	ND		--
	ug/L	10/20/03	1	ND	ND	ND	ND		--
	ug/L	03/24/04	1	ND	ND	ND	ND		--
	ug/L	10/27/04	1	ND	ND	ND	ND		--
	ug/L	05/25/05	1	ND	ND	ND	ND		--
	ug/L	10/05/05	1	ND	ND	ND	ND		--
	ug/L	04/25/06	1	ND	ND	ND	ND		--
	ug/L	10/05/06	1	ND	ND	ND	ND		ND
	ug/L	03/21/07	1	ND	ND	0.21	ND	J	ND
	ug/L	10/02/07	1	ND	ND	0.23	0.23	J	ND
	ug/L	04/01/08	1	ND	ND	0.26	ND	J	ND
	ug/L	10/29/08	1	ND	ND	0.23	ND	J	ND
	ug/L	03/24/09	1	ND	ND	ND	ND		ND
	ug/L	09/22/09	1	ND	ND	ND	ND		ND
	ug/L	03/24/10	1	ND	0.46	ND	0.45	J	ND
	ug/L	09/22/10	1	ND	ND	ND	0.57	J	ND
	ug/L	03/16/11	1	ND	ND	ND	ND		ND
	ug/L	09/21/11	1	ND	--	ND	ND		ND
	ug/L	03/21/12	1	ND	ND	ND	0.64	J	ND
	ug/L	09/20/12	1	ND	ND	ND	0.51	J	ND
	ug/L	03/20/13	1	ND	ND	ND	0.41	J	ND
1,1-Dichloroethane	ug/L	06/21/01	5	ND	ND	ND	ND		--
NC 2L = 6 ug/L	ug/L	04/24/02	5	ND	ND	ND	ND		--
	ug/L	10/01/02	5	ND	ND	ND	ND		--
	ug/L	04/10/03	5	ND	ND	ND	ND		--
	ug/L	10/20/03	5	ND	ND	ND	ND		--
	ug/L	03/24/04	5	ND	ND	ND	ND		--
	ug/L	10/27/04	5	ND	ND	ND	ND		--
	ug/L	05/25/05	5	ND	ND	ND	ND		--
	ug/L	10/05/05	5	ND	ND	ND	ND		--
	ug/L	04/25/06	5	ND	ND	ND	ND		--
	ug/L	10/05/06	5	ND	ND	ND	ND		ND
	ug/L	03/21/07	5	ND	ND	0.71	ND	J	ND
	ug/L	10/02/07	5	ND	ND	0.79	0.09	J	ND
	ug/L	04/01/08	5	ND	ND	0.99	0.12	J	ND
	ug/L	10/29/08	5	ND	ND	1.01	0.15	J	ND
	ug/L	03/24/09	5	ND	ND	0.82	ND	J	ND
	ug/L	09/22/09	5	ND	ND	0.70	ND	J	ND
	ug/L	03/24/10	5	ND	ND	0.47	ND	J	ND
	ug/L	09/22/10	5	ND	ND	ND	ND		ND
	ug/L	03/16/11	5	ND	ND	0.40	ND	J	ND
	ug/L	09/21/11	5	ND	--	0.51	ND	J	ND
	ug/L	03/21/12	5	ND	ND	ND	ND		ND
	ug/L	09/20/12	5	ND	ND	ND	ND		ND
	ug/L	03/20/13	5	ND	ND	ND	0.46	J	ND

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks
				MW-10		MW-11		MW-12		MW-13		
1,1-Dichloroethene	ug/L	03/24/09	5	ND		ND		ND		ND		ND
NC 2L = 7 ug/L	ug/L	09/22/09	5	ND		ND		ND		ND		ND
	ug/L	03/24/10	5	ND		ND		ND		ND		ND
	ug/L	09/22/10	5	ND		ND		ND		ND		ND
	ug/L	03/16/11	5	ND		ND		3.3	J	ND		ND
	ug/L	09/21/11	5	ND		--		ND		ND		ND
	ug/L	03/21/12	5	ND		ND		ND		ND		ND
	ug/L	09/20/12	5	ND		ND		ND		ND		ND
	ug/L	03/20/13	5	ND		ND		ND		3.1	J	ND
cis-1,2-Dichloroethene	ug/L	06/21/01	5	ND		ND		ND		ND		--
NC 2L = 70 ug/L	ug/L	04/24/02	5	ND		ND		ND		ND		--
	ug/L	10/01/02	5	ND		ND		ND		ND		--
	ug/L	04/10/03	5	ND		6		ND		ND		--
	ug/L	10/20/03	5	ND		ND		ND		ND		--
	ug/L	03/24/04	5	ND		ND		ND		ND		--
	ug/L	10/27/04	5	ND		ND		ND		ND		--
	ug/L	05/25/05	5	ND		ND		ND		ND		--
	ug/L	10/05/05	5	ND		ND		ND		ND		--
	ug/L	04/25/06	5	ND		ND		ND		ND		--
	ug/L	10/05/06	5	ND		ND		ND		ND		ND
	ug/L	03/21/07	5	ND		ND		0.20	J	ND		ND
	ug/L	10/02/07	5	ND		ND		0.27	J	0.21	J	ND
	ug/L	04/01/08	5	ND		ND		0.39	J	0.30	J	ND
	ug/L	10/29/08	5	ND		0.11	J	0.44	J	0.35	J	ND
	ug/L	03/24/09	5	ND		ND		ND		ND		ND
	ug/L	09/22/09	5	ND		5.7		ND		ND		ND
	ug/L	03/24/10	5	ND		5.3		ND		0.84	J	ND
	ug/L	09/22/10	5	ND		ND		ND		0.78	J	ND
	ug/L	03/16/11	5	ND		ND		0.76	J	1.3	J	ND
	ug/L	09/21/11	5	ND		--		ND		1.1	J	ND
	ug/L	03/21/12	5	ND		0.46	J	0.73	J	1.3	J	ND
	ug/L	09/20/12	5	ND		ND		0.60	J	1.4	J	ND
	ug/L	03/20/13	5	ND		0.94	J	0.86	J	1.6	J	ND
Chloromethane	ug/L	03/24/09	1	ND		ND		ND		ND		ND
SWS GPS = 3 ug/L	ug/L	09/22/09	1	ND		ND		ND		ND		ND
	ug/L	03/24/10	1	ND		ND		ND		ND		ND
	ug/L	09/22/10	1	0.51	J	0.47	J	1.1		ND		ND
	ug/L	03/16/11	1	ND		ND		ND		ND		ND
	ug/L	09/21/11	1	ND		--		ND		ND		ND
	ug/L	03/21/12	1	ND		ND		ND		ND		ND
	ug/L	09/20/12	1	ND		ND		ND		ND		ND
	ug/L	03/20/13	1	ND		ND		ND		ND		ND
Methylene chloride	ug/L	06/21/01	1	ND		ND		ND		ND		--
NC 2L = 5 ug/L	ug/L	04/24/02	1	ND		ND		ND		ND		--
	ug/L	10/01/02	1	ND		ND		ND		ND		--
	ug/L	04/10/03	1	ND		ND		ND		ND		--
	ug/L	10/20/03	1	ND		ND		ND		ND		--
	ug/L	03/24/04	1	ND		ND		ND		ND		--
	ug/L	10/27/04	1	ND		ND		ND		ND		--
	ug/L	05/25/05	1	ND		ND		ND		ND		--
	ug/L	10/05/05	1	ND		ND		ND		ND		--
	ug/L	04/25/06	1	ND		ND		ND		ND		--
	ug/L	10/05/06	1	ND		ND		ND		ND		ND
	ug/L	03/21/07	1	0.20	B	ND		2.08	B	0.38	B	0.39
	ug/L	10/02/07	1	ND		ND		1.42	B	ND		0.61
	ug/L	04/01/08	1	ND		0.52	B	2.83	J	0.48	B	0.54
	ug/L	10/29/08	1	ND		ND		2.58		0.52	J	ND
	ug/L	03/24/09	1	ND		ND		0.53	J	ND		ND
	ug/L	09/22/09	1	ND		ND		1.2		ND		ND
	ug/L	03/24/10	1	ND		ND		0.92	J	ND		ND
	ug/L	09/22/10	1	ND		ND		0.70	J	ND		ND
	ug/L	03/16/11	1	ND		ND		1.6		0.52	J	ND
	ug/L	09/21/11	1	ND		--		1.0		ND		ND
	ug/L	03/21/12	1	ND		ND		0.87	J	0.62	J	ND
	ug/L	09/20/12	1	ND		ND		ND		ND		ND
	ug/L	03/20/13	1	ND		ND		1.3		ND		ND

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well	Downgradient Wells				Blanks
				MW-10	MW-11	MW-12	MW-13		
2-Butanone	ug/L	03/24/09	100	ND	ND	ND	ND		ND
NC 2L = 4000 ug/L	ug/L	09/22/09	100	ND	ND	ND	ND		ND
	ug/L	03/24/10	100	ND	ND	ND	ND		ND
	ug/L	09/22/10	100	ND	ND	ND	ND		ND
	ug/L	03/16/11	100	ND	1.6 J	ND	ND		ND
	ug/L	09/21/11	100	ND	--	ND	ND		ND
	ug/L	03/21/12	100	ND	ND	ND	ND		ND
	ug/L	09/20/12	100	ND	ND	ND	ND		ND
	ug/L	03/20/13	100	ND	ND	ND	ND		ND
Tetrachloroethene	ug/L	06/21/01	1	ND	ND	ND	ND		--
NC 2L = 0.7 ug/L	ug/L	04/24/02	1	ND	ND	ND	ND		--
	ug/L	10/01/02	1	ND	ND	ND	ND		--
	ug/L	04/10/03	1	ND	ND	ND	ND		--
	ug/L	10/20/03	1	ND	ND	ND	ND		--
	ug/L	03/24/04	1	ND	ND	ND	ND		--
	ug/L	10/27/04	1	ND	ND	ND	ND		--
	ug/L	05/25/05	1	ND	ND	ND	ND		--
	ug/L	10/05/05	1	ND	ND	ND	ND		--
	ug/L	04/25/06	1	ND	ND	ND	ND		--
	ug/L	10/05/06	1	ND	ND	ND	ND		ND
	ug/L	03/21/07	1	ND	ND	0.76 J	ND		ND
	ug/L	10/02/07	1	ND	ND	1.05 J	0.27	J	ND
	ug/L	04/01/08	1	ND	0.12 J	1.22 J	0.32	J	ND
	ug/L	10/29/08	1	ND	0.36 J	1.21	0.33	J	ND
	ug/L	03/24/09	1	ND	0.49 J	1.3	ND		ND
	ug/L	09/22/09	1	ND	2.9	1.1	ND		ND
	ug/L	03/24/10	1	ND	3.4	1.6	0.56	J	ND
	ug/L	09/22/10	1	ND	ND	1.7	ND		ND
	ug/L	03/16/11	1	ND	ND	1.4	ND		ND
	ug/L	09/21/11	1	ND	--	ND	0.75	J	ND
	ug/L	03/21/12	1	ND	ND	0.74 J	0.49	J	ND
	ug/L	09/20/12	1	ND	ND	0.73 J	ND		ND
	ug/L	03/20/13	1	ND	ND	ND	ND		ND
Toluene	ug/L	06/21/01	1	ND	ND	ND	ND		--
NC 2L = 600 ug/L	ug/L	04/24/02	1	ND	ND	ND	ND		--
	ug/L	10/01/02	1	ND	ND	ND	ND		--
	ug/L	04/10/03	1	ND	ND	ND	ND		--
	ug/L	10/20/03	1	ND	ND	ND	ND		--
	ug/L	03/24/04	1	ND	ND	ND	ND		--
	ug/L	10/27/04	1	ND	ND	ND	ND		--
	ug/L	05/25/05	1	ND	ND	ND	ND		--
	ug/L	10/05/05	1	ND	ND	ND	ND		--
	ug/L	04/25/06	1	ND	ND	ND	ND		--
	ug/L	10/05/06	1	ND	ND	ND	ND		ND
	ug/L	03/21/07	1	ND	ND	ND	ND		ND
	ug/L	10/02/07	1	ND	ND	ND	ND		ND
	ug/L	04/01/08	1	ND	ND	ND	0.19	J	ND
	ug/L	10/29/08	1	ND	ND	ND	ND		ND
	ug/L	03/24/09	1	ND	ND	ND	ND		ND
	ug/L	09/22/09	1	ND	ND	ND	ND		ND
	ug/L	03/24/10	1	ND	ND	ND	ND		ND
	ug/L	09/22/10	1	ND	ND	ND	ND		ND
	ug/L	03/16/11	1	ND	ND	ND	ND		ND
	ug/L	09/21/11	1	ND	--	ND	ND		ND
	ug/L	03/21/12	1	ND	ND	ND	ND		ND
	ug/L	09/20/12	1	ND	ND	ND	ND		ND
	ug/L	03/20/13	1	ND	ND	ND	ND		ND

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well	Downgradient Wells				Blanks
				MW-10	MW-11	MW-12	MW-13		
1,1,1-Trichloroethane	ug/L	06/21/01	1	ND	ND	ND	ND		--
NC 2L = 200 ug/L	ug/L	04/24/02	1	ND	ND	ND	ND		--
	ug/L	10/01/02	1	ND	ND	ND	ND		--
	ug/L	04/10/03	1	ND	ND	ND	ND		--
	ug/L	10/20/03	1	ND	ND	ND	ND		--
	ug/L	03/24/04	1	ND	ND	ND	ND		--
	ug/L	10/27/04	1	ND	ND	ND	ND		--
	ug/L	05/25/05	1	ND	ND	ND	ND		--
	ug/L	10/05/05	1	ND	ND	ND	ND		--
	ug/L	04/25/06	1	ND	ND	ND	ND		--
	ug/L	10/05/06	1	ND	ND	ND	ND		ND
	ug/L	03/21/07	1	ND	ND	0.24	ND		ND
	ug/L	10/02/07	1	ND	ND	0.21	ND		ND
	ug/L	04/01/08	1	ND	ND	0.17	ND		ND
	ug/L	10/29/08	1	ND	ND	0.15	ND		ND
	ug/L	03/24/09	1	ND	ND	ND	ND		ND
	ug/L	09/22/09	1	ND	ND	ND	ND		ND
	ug/L	03/24/10	1	ND	ND	ND	ND		ND
	ug/L	09/22/10	1	ND	ND	ND	ND		ND
	ug/L	03/16/11	1	ND	ND	ND	ND		ND
	ug/L	09/21/11	1	ND	--	ND	ND		ND
	ug/L	03/21/12	1	ND	ND	ND	ND		ND
	ug/L	09/20/12	1	ND	ND	ND	ND		ND
	ug/L	03/20/13	1	ND	ND	ND	ND		ND
Trichloroethene	ug/L	06/21/01	1	ND	ND	ND	ND		--
NC 2L = 3 ug/L	ug/L	04/24/02	1	ND	ND	ND	ND		--
	ug/L	10/01/02	1	ND	ND	ND	ND		--
	ug/L	04/10/03	1	ND	ND	ND	ND		--
	ug/L	10/20/03	1	ND	ND	ND	ND		--
	ug/L	03/24/04	1	ND	ND	ND	ND		--
	ug/L	10/27/04	1	ND	ND	ND	ND		--
	ug/L	05/25/05	1	ND	ND	ND	ND		--
	ug/L	10/05/05	1	ND	ND	ND	ND		--
	ug/L	04/25/06	1	ND	ND	ND	ND		--
	ug/L	10/05/06	1	ND	ND	ND	ND		ND
	ug/L	03/21/07	1	ND	ND	0.24	ND		ND
	ug/L	10/02/07	1	ND	ND	0.27	0.18	J	ND
	ug/L	04/01/08	1	ND	ND	0.51	0.19	J	ND
	ug/L	10/29/08	1	ND	ND	0.52	1.13		ND
	ug/L	03/24/09	1	ND	ND	0.44	ND		ND
	ug/L	09/22/09	1	ND	0.64 J	ND	ND		ND
	ug/L	03/24/10	1	ND	0.90 J	0.52	ND		ND
	ug/L	09/22/10	1	ND	ND	ND	ND		ND
	ug/L	03/16/11	1	ND	ND	ND	ND		ND
	ug/L	09/21/11	1	ND	--	0.82	ND		ND
	ug/L	03/21/12	1	ND	ND	0.46	0.41	J	ND
	ug/L	09/20/12	1	ND	ND	ND	ND		ND
	ug/L	03/20/13	1	ND	ND	ND	ND		ND
Trichlorofluoromethane	ug/L	06/21/01	1	ND	ND	ND	ND		--
NC 2L = 2000 ug/L	ug/L	04/24/02	1	ND	ND	ND	ND		--
	ug/L	10/01/02	1	ND	ND	ND	ND		--
	ug/L	04/10/03	1	ND	ND	ND	ND		--
	ug/L	10/20/03	1	ND	ND	ND	ND		--
	ug/L	03/24/04	1	ND	ND	ND	ND		--
	ug/L	10/27/04	1	ND	ND	ND	ND		--
	ug/L	05/25/05	1	ND	ND	ND	ND		--
	ug/L	10/05/05	1	ND	ND	8.07	ND		--
	ug/L	04/25/06	1	ND	ND	ND	23.1		--
	ug/L	10/05/06	1	ND	ND	13.8	ND		ND
	ug/L	03/21/07	1	ND	ND	11.3	ND		ND
	ug/L	10/02/07	1	ND	ND	9.90	0.26	J	ND
	ug/L	04/01/08	1	ND	ND	8.03	3.88		ND
	ug/L	10/29/08	1	ND	ND	6.83	2.71		ND
	ug/L	03/24/09	1	ND	ND	4.3	1.5		ND
	ug/L	09/22/09	1	ND	ND	2.0	ND		ND
	ug/L	03/24/10	1	ND	ND	2.6	1.0		ND
	ug/L	09/22/10	1	ND	ND	2.0	0.87	J	ND
	ug/L	03/16/11	1	ND	ND	1.4	2.5		ND
	ug/L	09/21/11	1	ND	--	0.82	1.7		ND
	ug/L	03/21/12	1	ND	ND	0.51	ND		ND
	ug/L	09/20/12	1	ND	ND	0.80	0.76	J	ND
	ug/L	03/20/13	1	ND	ND	ND	1.1		ND

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks	
				MW-10		MW-11		MW-12		MW-13			
Vinyl chloride	ug/L	06/21/01	1	ND		ND		ND		ND		--	
NC 2L = 0.03 ug/L	ug/L	04/24/02	1	ND		ND		ND		ND		--	
	ug/L	10/01/02	1	ND		ND		ND		ND		--	
	ug/L	04/10/03	1	ND		ND		ND		ND		--	
	ug/L	10/20/03	1	ND		ND		ND		ND		--	
	ug/L	03/24/04	1	ND		ND		ND		ND		--	
	ug/L	10/27/04	1	ND		ND		ND		ND		--	
	ug/L	05/25/05	1	ND		ND		ND		ND		--	
	ug/L	10/05/05	1	ND		ND		ND		ND		--	
	ug/L	04/25/06	1	ND		ND		ND		ND		--	
	ug/L	10/05/06	1	ND		ND		ND		ND		ND	
	ug/L	03/21/07	1	ND		ND		ND		ND		ND	
	ug/L	10/02/07	1	ND		ND		ND		ND		ND	
	ug/L	04/01/08	1	ND		ND		ND		ND		ND	
	ug/L	10/29/08	1	ND		ND		0.56	J	ND		ND	
	ug/L	03/24/09	1	ND		ND		ND		ND		ND	
	ug/L	09/22/09	1	ND		0.55	J	ND		ND		ND	
	ug/L	03/24/10	1	ND		ND		ND		ND		ND	
	ug/L	09/22/10	1	ND		ND		0.42	J	ND		ND	
	ug/L	03/16/11	1	ND		ND		ND		0.64	J	ND	
	ug/L	09/21/11	1	ND		--		ND		ND		ND	
	ug/L	03/21/12	1	ND		ND		0.45	J	ND		ND	
	ug/L	09/20/12	1	ND		ND		0.57	J	0.56	J	ND	
	ug/L	03/20/13	1	ND		0.51	J	0.70	J	0.51	J	ND	
Xylenes (Total)	ug/L	06/21/01	5	ND		ND		ND		ND		--	
NC 2L = 500 ug/L	ug/L	04/24/02	5	ND		ND		ND		ND		--	
	ug/L	10/01/02	5	ND		ND		ND		ND		--	
	ug/L	04/10/03	5	ND		ND		ND		ND		--	
	ug/L	10/20/03	5	ND		ND		ND		ND		--	
	ug/L	03/24/04	5	ND		ND		ND		ND		--	
	ug/L	10/27/04	5	ND		ND		ND		ND		--	
	ug/L	05/25/05	5	ND		ND		ND		ND		--	
	ug/L	10/05/05	5	ND		ND		ND		ND		--	
	ug/L	04/25/06	5	ND		ND		ND		ND		--	
	ug/L	10/05/06	5	ND		ND		ND		ND		ND	
	ug/L	03/21/07	5	ND		ND		0.17	J	ND		ND	
	ug/L	10/02/07	5	ND		ND		0.17	J	ND		ND	
	ug/L	04/01/08	5	ND		ND		0.28	J	ND		ND	
	ug/L	10/29/08	5	ND		ND		0.25	J	ND		ND	
	ug/L	03/24/09	5	ND		ND		ND		ND		ND	
	ug/L	09/22/09	5	ND		0.72	J	ND		ND		ND	
	ug/L	03/24/10	5	ND		0.62	J	ND		ND		ND	
	ug/L	09/22/10	5	ND		ND		ND		ND		ND	
	ug/L	03/16/11	5	ND		ND		ND		ND		ND	
	ug/L	09/21/11	5	ND		--		ND		ND		ND	
	ug/L	03/21/12	5	ND		ND		ND		ND		ND	
	ug/L	09/20/12	5	ND		ND		ND		ND		ND	
	ug/L	03/20/13	5	ND		ND		ND		ND		ND	
Tetrahydrofuran	ug/L	03/16/11	--	ND		ND		74		7.6		ND	
No Standard	ug/L	09/21/11	--	ND		--		39		8.2		ND	
	ug/L	03/21/12	--	ND		ND		28		17		ND	
	ug/L	09/20/12	--	ND		ND		22		9.1		ND	
	ug/L	03/20/13	1	ND		ND		34	B	9.0	B	21	
2,4-D	ug/L	09/21/11	2	ND		--		ND		1.3	J	ND	
NC 2L = 70 ug/L	ug/L	03/21/12	2	ND		ND		ND		0.80	J	ND	
	ug/L	09/20/12	2	ND		ND		ND		ND		ND	
	ug/L	03/20/13	2	ND		ND		ND		1.1	J	ND	
Chloride	mg/L	03/24/09	--	ND		8.8		4.1	J	ND		ND	
NC 2L = 250 mg/L*	mg/L	09/22/09	--	3.1	J	8.1		8.7		3.6	J	ND	
	mg/L	03/24/10	--	ND		1.7	J	7.3		2.5	J	ND	
	mg/L	09/22/10	--	3	J	4.7	J	4.8	J	5.1		ND	
	mg/L	03/16/11	--	3	J	ND	J	8.6		4.8	J	ND	
	mg/L	09/21/11	--	2.6	B	--		17		4.4	B	1.5	J
	mg/L	03/21/12	--	2.3	B	4.2	B	18		4.6	B	1.2	J
	mg/L	09/20/12	--	2.6	B	6.3	B	16		6.3	B	1.5	
	mg/L	03/20/13	5	2.6	B	6.6	B	14		7.3	B	1.5	

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks	
				MW-10		MW-11		MW-12		MW-13			
Total Dissolved Solids	mg/L	03/24/09	--	86		310		190		140		ND	
NC 2L = 1000 mg/L	mg/L	09/22/09	--	66		280		160		130		ND	
	mg/L	03/24/10	--	22		110		170		140		ND	
	mg/L	09/22/10	--	40		110		160		190		ND	
	mg/L	03/16/11	--	46		ND		160		120		ND	
	mg/L	09/21/11	--	16		--		200		140		ND	
	mg/L	03/21/12	--	18		190		190		140		ND	
	mg/L	09/20/12	--	200		170		120		110		ND	
	mg/L	03/20/13	10	46		270		260		260		ND	
Sulfate as SO4	mg/L	03/24/09	250	1.5	J	150	J	18	J	3.0	J	ND	
NC 2L = 250 mg/L	mg/L	09/22/09	250	1.7	J	100	J	17	J	3.9	J	ND	
	mg/L	03/24/10	250	ND		5.3	J	16	J	2.1	J	ND	
	mg/L	09/22/10	250	ND		4.8	J	5.4	J	4.9	J	ND	
	mg/L	03/16/11	250	1.9	J	ND	J	7.3	J	3.9	J	ND	
	mg/L	09/21/11	250	1.7	B	--		14	J	4.2	B	1.7	J
	mg/L	03/21/12	250	1.5	J	46	J	18	J	6.3	J	ND	
	mg/L	09/20/12	250	1.9	J	66	J	18	J	9.9	J	ND	
	mg/L	03/20/13	250	1.6	J	32	J	16	J	12	J	ND	
Total Alkalinity	mg/L	03/24/09	--	17		18		80		65		ND	
No Standard	mg/L	09/22/09	--	12	J	41		76		68		ND	
	mg/L	03/24/10	--	9.6	J	57		76		75		ND	
	mg/L	09/22/10	--	ND		46		86		100		ND	
	mg/L	03/16/11	--	ND		ND		94		96		ND	
	mg/L	09/21/11	--	ND		--		90		90		ND	
	mg/L	03/21/12	--	14	J	51		87		100		ND	
	mg/L	09/20/12	--	19		53		86		100		ND	
	mg/L	03/20/13	15	15		69		96		110		ND	
pH (field)	S.U.	03/21/07	--	5.23		5.29		5.52		5.78		--	
	S.U.	10/02/07	--	--		--		--		--		--	
	S.U.	04/01/08	--	--		--		--		--		--	
	S.U.	10/29/08	--	--		--		--		--		--	
	S.U.	03/24/09	--	6.78		6.22		6.46		6.84		--	
	S.U.	09/22/09	--	7.37		5.41		5.59		5.90		--	
	S.U.	03/24/10	--	7.47		5.64		5.90		6.61		--	
	S.U.	09/22/10	--	5.80		5.27		5.39		5.81		--	
	S.U.	03/16/11	--	5.58		5.48		5.52		5.65		--	
	S.U.	09/21/11	--	5.92		--		5.38		5.87		--	
	S.U.	03/21/12	--	6.75		5.18		5.47		5.89		--	
	S.U.	09/20/12	--	6.34		5.72		5.07		6.16		--	
	S.U.	03/20/13	--	5.86		5.37		5.63		5.73		--	
Conductivity (field)	µS/cm	03/21/07	--	35		73		135		87		--	
	µS/cm	10/02/07	--	--		--		--		--		--	
	µS/cm	04/01/08	--	--		--		--		--		--	
	µS/cm	10/29/08	--	--		--		--		--		--	
	µS/cm	03/24/09	--	50		450		150		230		--	
	µS/cm	09/22/09	--	58		404		240		156		--	
	µS/cm	03/24/10	--	42		170		249		191		--	
	µS/cm	09/22/10	--	37		144		230		316		--	
	µS/cm	03/16/11	--	46		138		256		220		--	
	µS/cm	09/21/11	--	44		--		272		207		--	
	µS/cm	03/21/12	--	22		188		292		219		--	
	uS/cm	09/20/12	--	44		262		218		215		--	
	uS/cm	03/20/13	--	36		213		252		215		--	
Temperature (field)	Celsius	03/21/07	--	14.10		15.50		13.50		13.10		--	
	Celsius	10/02/07	--	--		--		--		--		--	
	Celsius	04/01/08	--	--		--		--		--		--	
	Celsius	10/29/08	--	--		--		--		--		--	
	Celsius	03/24/09	--	16.00		14.70		14.10		15.80		--	
	Celsius	09/22/09	--	15.68		15.92		14.99		14.90		--	
	Celsius	03/24/10	--	13.36		14.12		13.13		12.31		--	
	Celsius	09/22/10	--	15.22		15.42		14.36		14.61		--	
	Celsius	03/16/11	--	12.28		13.51		12.90		12.73		--	
	Celsius	09/21/11	--	13.97		--		15.20		14.38		--	
	Celsius	03/21/12	--	14.35		17.52		15.18		16.65		--	
	Celsius	09/20/12	--	14.15		17.47		14.45		13.97		--	
	Celsius	03/20/13	--	9.27		13.86		12.44		13.00		--	

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well	Downgradient Wells			Blanks
				MW-10	MW-11	MW-12	MW-13	
Turbidity (field)	NTU	03/24/09	--	76.2	13.8	149	108	--
	NTU	09/22/09	--	20.1	20.4	61.3	37.3	--
	NTU	03/24/10	--	6.36	16.6	51.1	19.7	--
	NTU	09/22/10	--	8.46	5.45	10.3	24.2	--
	NTU	03/16/11	--	21.6	12.1	36.1	17.6	--
	NTU	09/21/11	--	14.6	--	27.6	26.4	--
	NTU	03/21/12	--	45.0	45.8	13.5	27.5	--
	NTU	09/20/12	--	42.3	35.0	32.4	25.2	--
	NTU	03/20/13	--	4.86	11.9	12.2	20.4	--

Notes:
ug/L = micrograms per liter
mg/L = milligrams per liter
NTU = Nephelometric Turbidity Units
mV = millivolts
S.U. = Standard Units
ND = Not detected at the stated reporting limit
NM = Not measured
J = estimated concentration
B = Blank-qualified result
-- = no data available
* = EPA Maximum Contaminant Level Secondary Standard
Blanks = field, trip and method blanks
Shaded = concentrations above the NC 2L Groundwater Standards or Solid Waste Section Groundwater Protection Standards (SWS GPS) have been shaded.
SWS Reporting Limit = NCPQL or lab-specific reporting limit prior to October 2007 and NCSWSL starting in October 2007
1) Historical data prior to March 2009 provided by Henderson County and CDM.

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Antimony	ug/L	12/05/94	6	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	6	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	6	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	6	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	6	--	--	--	ND	--	--	--
	ug/L	10/24/96	6	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	6	ND	ND	ND	5	--	--	--
	ug/L	10/29/97	6	18	ND	ND	ND	--	--	--
	ug/L	05/14/98	6	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	6	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	6	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	6	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	6	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	6	--	--	ND	ND	--	--	--
	ug/L	10/16/01	6	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	6	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	6	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	6	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	6	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	6	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	6	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	6	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	6	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	6	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	6	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	6	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	6	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	6	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	6	ND	ND	0.521 J	ND	--	--	ND
	ug/L	09/23/10	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/21/11	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/12	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/20/12	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/20/13	6	ND	ND	ND	ND	--	--	ND
Arsenic	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--
SW Standard = 50 ug/L	ug/L	02/14/95	10	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	10	ND	12	ND	ND	--	--	--
	ug/L	04/08/96	10	--	--	--	ND	--	--	--
	ug/L	10/24/96	10	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	10	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	10	19	ND	ND	ND	--	--	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	10	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	10	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	10	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	10	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	10	--	--	ND	ND	--	--	--
	ug/L	10/16/01	10	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	10	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	10	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	10	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	10	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	10	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	10	ND	ND	11.7	ND	--	--	--
	ug/L	05/25/05	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	10	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	10	ND	ND	0.56 J	1.57 J	--	--	ND
	ug/L	10/02/07	10	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	10	ND	ND	4.8 J	2.52 J	--	--	ND
	ug/L	10/29/08	10	2.5 J	--	4.65 J	4.14 J	--	--	ND
	ug/L	03/24/09	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	10	4.69 B	2.94 B	3.11 B	ND	--	--	2.90 J
	ug/L	03/22/10	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/21/11	10	ND	ND	4.96 J	ND	--	--	ND
	ug/L	03/21/12	10	ND	4.18 J	ND	ND	--	--	ND
	ug/L	09/20/12	10	ND	ND	ND	ND	--	--	3.27 J
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1	TSW-2	Blanks	
Barium	ug/L	12/05/94	100	ND		ND		ND		ND		--	--	--	
No SW Standard	ug/L	02/14/95	100	131		ND		--		ND		--	--	--	
	ug/L	04/03/95	100	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	100	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	100	--		--		--		ND		--	--	--	
	ug/L	10/24/96	100	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	100	130		220		ND		ND		--	--	--	
	ug/L	10/29/97	100	400		ND		ND		ND		--	--	--	
	ug/L	05/14/98	100	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	100	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	100	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	100	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	100	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	100	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	100	ND		--		111		ND		--	--	--	
	ug/L	04/24/02	100	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	100	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	100	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	100	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	100	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	100	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	100	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	100	ND		4310		ND		ND		--	--	--	
	ug/L	04/25/06	100	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	100	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	100	22.7	J	193		342		36.3	J	--	--	ND	
	ug/L	10/02/07	100	77.5	B	266		697		42.2	B	--	--	16.1	J
	ug/L	04/03/08	100	64.6	J	171		504		47.9	B	--	--	10.1	J
	ug/L	10/29/08	100	78.6	B	--		732	B	65.1	B	--	--	ND	
	ug/L	03/24/09	100	73.2	J	273		575		42.1	J	--	--	ND	
	ug/L	09/22/09	100	75.6	J	130		253		64.8	J	--	--	ND	
	ug/L	03/22/10	100	62.7	J	144		83.3	J	58.1	J	--	--	1.54	J
	ug/L	09/23/10	100	45.6	J	163		361		26.1	J	--	--	ND	
	ug/L	03/16/11	100	89.8	J	265		199		63.2	J	--	--	ND	
	ug/L	09/21/11	100	65.3	J	200		253		52.5	J	--	--	ND	
	ug/L	03/21/12	100	46.2	J	240		323		38.0	J	--	--	ND	
	ug/L	09/20/12	100	70.1	J	219		439		43.4	J	--	--	ND	
	ug/L	03/20/13	100	41.8	J	171		194		42.0	J	--	--	1.34	J
Beryllium	ug/L	12/05/94	1	ND		ND		ND		ND		--	--	--	
SW Standard = 6.5 ug/L	ug/L	02/14/95	1	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	1	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	1	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	1	--		--		--		ND		--	--	--	
	ug/L	10/24/96	1	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	1	ND		ND		ND		ND		--	--	--	
	ug/L	10/29/97	1	9		ND		ND		ND		--	--	--	
	ug/L	05/14/98	1	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	1	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	1	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	1	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	1	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	1	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	1	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	1	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	1	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	1	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	1	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	1	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	1	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	1	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	1	ND		4.07		ND		ND		--	--	--	
	ug/L	04/25/06	1	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	1	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	1	ND		ND		ND		ND		--	--	ND	
	ug/L	10/02/07	1	1.97	B	2.28	B	3.9	B	1.97	B	--	--	6.01	
	ug/L	04/03/08	1	1.93		5.01		2.80		2.73		--	--	ND	
	ug/L	10/29/08	1	6.46	B	--		10.2	B	7.9	B	--	--	ND	
	ug/L	03/24/09	1	ND		ND		1.01		ND		--	--	ND	
	ug/L	09/22/09	1	ND		ND		0.656	J	ND		--	--	ND	
	ug/L	03/22/10	1	ND		ND		0.318	J	ND		--	--	ND	
	ug/L	09/23/10	1	ND		ND		0.820	J	ND		--	--	ND	
	ug/L	03/16/11	1	ND		ND		0.543	J	ND		--	--	ND	
	ug/L	09/21/11	1	ND		ND		0.362	J	ND		--	--	ND	
	ug/L	03/21/12	1	ND		ND		0.736	J	ND		--	--	ND	
	ug/L	09/20/12	1	ND		ND		0.694	J	ND		--	--	ND	
	ug/L	03/20/13	1	ND		ND		0.227	J	ND		--	--	ND	

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Cadmium	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
SW Standard = 2 ug/L (N)	ug/L	02/14/95	1	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	--	--	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	11	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	1	1.5	--	1.7	1.2	--	--	--
	ug/L	11/07/00	1	--	--	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	1.5	--	1.2	1.5	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	111	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	1.15	1.03	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	1.42 J	2.71 J	1.36 J	0.51 J	--	--	ND
	ug/L	10/02/07	1	ND	ND	1.31	ND	--	--	ND
	ug/L	04/03/08	1	ND	ND	1.1	ND	--	--	ND
	ug/L	10/29/08	1	ND	--	1.83	ND	--	--	ND
	ug/L	03/24/09	1	ND	ND	1.12	ND	--	--	ND
	ug/L	09/22/09	1	ND	ND	0.716 J	ND	--	--	ND
	ug/L	03/22/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	1	ND	ND	0.487 J	ND	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/12	1	ND	ND	0.468 J	ND	--	--	ND
	ug/L	09/20/12	1	ND	ND	0.691 J	ND	--	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	--	--	ND
Chromium	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--
SW Standard = 50 ug/L	ug/L	02/14/95	10	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	10	--	--	--	ND	--	--	--
	ug/L	10/24/96	10	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	10	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	10	10	1	ND	ND	--	--	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	10	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	10	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	10	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	10	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	10	--	--	ND	ND	--	--	--
	ug/L	10/16/01	10	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	10	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	10	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	10	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	10	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	10	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	10	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	10	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	10	1.44 J	3.02 J	2.38 J	2.86 J	--	--	ND
	ug/L	10/02/07	10	5.39 B	5.08 B	4.58 B	4.07 B	--	--	3.67 J
	ug/L	04/03/08	10	5.05 B	4.06 B	4.06 B	3.31 B	--	--	2.94 J
	ug/L	10/29/08	10	6.96 B	--	6.34 B	6.10 B	--	--	ND
	ug/L	03/24/09	10	2.0 J	3.4 J	1.9 J	1.4 J	--	--	ND
	ug/L	09/22/09	10	ND	1.83 J	ND	ND	--	--	ND
	ug/L	03/22/10	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	10	2.21 J	3.97 J	2.42 J	1.64 J	--	--	ND
	ug/L	09/21/11	10	1.29 J	3.44 J	1.78 J	1.06 J	--	--	ND
	ug/L	03/21/12	10	1.39 J	2.21 J	2.19 J	1.10 J	--	--	ND
	ug/L	09/20/12	10	ND	1.93 J	1.38 J	ND	--	--	ND
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1	TSW-2	Blanks	
Cobalt	ug/L	12/05/94	10	ND		ND		ND		ND		--	--	--	
No SW Standard	ug/L	02/14/95	10	11		ND		--		ND		--	--	--	
	ug/L	04/03/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	10	4		1		ND		ND		--	--	--	
	ug/L	10/29/97	10	--		--		--		--		--	--	--	
	ug/L	05/14/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	10	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	10	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	10	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	10	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	10	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	10	ND		--		10.7		ND		--	--	--	
	ug/L	10/01/02	10	ND		--		10.7		ND		--	--	--	
	ug/L	04/09/03	10	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	10	2.52	J	3.56	J	4.76	J	ND		--	--	ND	
	ug/L	10/02/07	10	ND		ND		ND		ND		--	--	ND	
	ug/L	04/03/08	10	ND		5.32	J	3.66	J	ND		--	--	ND	
	ug/L	10/29/08	10	7.54	J	--		7.90	J	ND		--	--	ND	
	ug/L	03/24/09	10	3.9	J	4.8	J	4.8	J	1.0	J	--	--	ND	
	ug/L	09/22/09	10	1.21	J	5.16	J	1.90	J	ND		--	--	ND	
	ug/L	03/22/10	10	3.17	J	6.20	J	1.39	J	2.71	J	--	--	ND	
	ug/L	09/23/10	10	2.38	J	5.61	J	3.38	J	ND		--	--	ND	
	ug/L	03/16/11	10	1.94	J	5.87	J	1.82	J	1.85	J	--	--	ND	
	ug/L	09/21/11	10	3.22	J	9.89	J	3.13	J	2.29	J	--	--	ND	
	ug/L	03/21/12	10	2.44	J	8.93	J	2.84	J	1.71	J	--	--	ND	
	ug/L	09/20/12	10	2.52	J	8.43	J	3.31	J	1.12	J	--	--	ND	
	ug/L	03/20/13	10	1.77	J	3.49	J	2.03	J	ND		--	--	ND	
Copper	ug/L	12/05/94	10	ND		ND		ND		ND		--	--	--	
SW Standard = 7 ug/L (AL)	ug/L	02/14/95	10	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/29/97	10	ND		--		ND		ND		--	--	--	
	ug/L	05/14/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	10	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	10	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	10	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	10	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	10	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	10	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	10	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	10	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	10	4.32	J	4.93	J	3.97	J	4.23	J	--	--	ND	
	ug/L	10/02/07	10	5.94	B	6.24	B	5.64	B	6.01	B	--	--	6.41	J
	ug/L	04/03/08	10	4.96	B	4.27	B	4.53	B	5.38	B	--	--	4.46	J
	ug/L	10/29/08	10	6.95	B	--		5.85	B	10.3	B	--	--	ND	
	ug/L	03/24/09	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/22/09	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/22/10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/23/10	10	ND		ND		2.15	J	ND		--	--	ND	
	ug/L	03/16/11	10	9.17	J	ND		4.73	J	2.13	J	--	--	ND	
	ug/L	09/21/11	10	ND		3.90	J	2.35	J	ND		--	--	ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/20/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/20/13	10	ND		ND		1.60	J	ND		--	--	ND	

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1	TSW-2	Blanks	
Lead	ug/L	12/05/94	10	ND		38		8		7		--	--	--	
SW Standard = 25 ug/L (N)	ug/L	02/14/95	10	ND		5		--		7		--	--	--	
	ug/L	04/03/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	10	ND		110		ND		ND		--	--	--	
	ug/L	04/15/97	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/29/97	10	28		ND		ND		ND		--	--	--	
	ug/L	05/14/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	10	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	10	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	10	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	10	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	10	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	10	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	10	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	10	18.5		--		ND		ND		--	--	--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	10	ND		ND		11.6		ND		--	--	--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	10	ND		242		ND		ND		--	--	--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	10	ND		1.56	J	ND		ND		--	--	ND	
	ug/L	10/02/07	10	0.49	B	0.65	B	0.46	B	0.49	B	--	--	0.49	J
	ug/L	04/03/08	10	5.13	J	7.36	J	ND		ND		--	--	ND	
	ug/L	10/29/08	10	6.36	B	--		7.18	B	10.1	B	--	--	ND	
	ug/L	03/24/09	10	2.8	J	3.9	J	3.8	J	2.1	J	--	--	ND	
	ug/L	09/22/09	10	ND		2.33	J	ND		ND		--	--	ND	
	ug/L	03/22/10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/23/10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/16/11	10	4.31	J	2.33	J	3.29	J	ND		--	--	ND	
	ug/L	09/21/11	10	ND		8.03	J	2.33	J	ND		--	--	ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/20/12	10	3.64	B	ND		2.28	B	3.19	B	--	--	2.70	J
	ug/L	03/20/13	10	ND		ND		ND		ND		--	--	ND	
Nickel	ug/L	12/05/94	50	ND		ND		ND		ND		--	--	--	
SW Standard = 88 ug/L (N)	ug/L	02/14/95	50	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	50	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	50	--		--		--		ND		--	--	--	
	ug/L	10/24/96	50	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/29/97	50	ND		--		ND		ND		--	--	--	
	ug/L	05/14/98	50	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	50	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	50	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	50	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	50	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	50	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	50	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	50	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	50	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	50	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	50	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	50	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	50	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	50	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	50	0.61	J	ND		5.04	J	ND		--	--	ND	
	ug/L	10/02/07	50	2.25	B	3.79	B	7.68	J	1.67	B	--	--	0.8	J
	ug/L	04/03/08	50	ND		ND		ND		ND		--	--	ND	
	ug/L	10/29/08	50	ND		--		8.09	J	ND		--	--	ND	
	ug/L	03/24/09	50	2.0	J	2.5	J	4.2	J	1.0	J	--	--	ND	
	ug/L	09/22/09	50	2.17	J	3.90	J	2.65	J	ND		--	--	ND	
	ug/L	03/22/10	50	ND		3.21	J	ND		ND		--	--	ND	
	ug/L	09/23/10	50	ND		2.24	J	ND		ND		--	--	ND	
	ug/L	03/16/11	50	2.92	J	ND		2.04	J	ND		--	--	ND	
	ug/L	09/21/11	50	ND		2.97	J	2.71	J	ND		--	--	ND	
	ug/L	03/21/12	50	ND		2.31	J	2.51	J	ND		--	--	ND	
	ug/L	09/20/12	50	ND		1.82	J	2.80	J	ND		--	--	ND	
	ug/L	03/20/13	50	ND		ND		2.04	J	ND		--	--	ND	

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1	TSW-2	Blanks	
Selenium	ug/L	12/05/94	10	ND		ND		ND		ND		--	--	--	
SW Standard = 5 ug/L	ug/L	02/14/95	10	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	10	18		ND		ND		8		--	--	--	
	ug/L	10/29/97	10	26		--		ND		ND		--	--	--	
	ug/L	05/14/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	10	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	10	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	10	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	10	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	10	ND		--		10		ND		--	--	--	
	ug/L	04/24/02	10	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	10	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	10	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	10	ND		ND		ND		ND		--	--	ND	
	ug/L	10/02/07	10	10.4		8.22	J	ND		9.83	J	--	--	ND	
	ug/L	04/03/08	10	ND		7.73	J	7.75	J	8.67	J	--	--	ND	
	ug/L	10/29/08	10	ND		--		ND		ND		--	--	ND	
	ug/L	03/24/09	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/22/09	10	3.17	B	ND		ND		6.01	B	--	--	6.41	J
	ug/L	03/22/10	10	ND		2.75	J	ND		ND		--	--	ND	
	ug/L	09/23/10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/16/11	10	ND		ND		ND		3.09	B	--	--	3.32	J
	ug/L	09/21/11	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/20/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/20/13	10	ND		ND		ND		ND		--	--	ND	
Silver	ug/L	12/05/94	10	ND		ND		ND		ND		--	--	--	
SW Standard = 0.06 ug/L (AL)	ug/L	02/14/95	10	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	10	ND		0.2		ND		0.3		--	--	--	
	ug/L	10/29/97	10	2		--		ND		ND		--	--	--	
	ug/L	05/14/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	10	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	10	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	10	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	10	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	10	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	10	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	10	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	10	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	10	1.32	J	1.01	J	0.97	J	0.99	J	--	--	ND	
	ug/L	10/02/07	10	ND		1.55	J	1.25	J	ND		--	--	ND	
	ug/L	04/03/08	10	1.03	J	1.41	J	1.64	J	1.25	J	--	--	ND	
	ug/L	10/29/08	10	6.03	B	--		5.77	B	5.32	B	--	--	ND	
	ug/L	03/24/09	10	1.3	J	2.5	J	2.4	J	1.3	J	--	--	ND	
	ug/L	09/22/09	10	ND		2.23	J	ND		ND		--	--	ND	
	ug/L	03/22/10	10	ND		2.89	J	ND		ND		--	--	ND	
	ug/L	09/23/10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/16/11	10	ND		2.81	J	ND		ND		--	--	ND	
	ug/L	09/21/11	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/20/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/20/13	10	1.94	B	2.72	B	ND		ND		--	--	2.11	J

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Thallium	ug/L	12/05/94	5.5	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	5.5	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	5.5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	5.5	--	--	--	ND	--	--	--
	ug/L	10/24/96	5.5	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	5.5	206	1	2	1	--	--	--
	ug/L	05/14/98	5.5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	5.5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	5.5	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	5.5	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	5.5	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	5.5	--	--	ND	ND	--	--	--
	ug/L	10/16/01	5.5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	5.5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	5.5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	5.5	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	5.5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	5.5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	5.5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	5.5	7.25	--	ND	ND	--	--	ND
	ug/L	03/24/09	5.5	ND	ND	ND	ND	--	--	0.092 J
	ug/L	09/22/09	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	5.5	0.465 J	0.415 J	0.192 J	0.675 J	--	--	ND
	ug/L	09/21/11	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/12	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	09/20/12	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/20/13	6	ND	ND	ND	ND	--	--	ND
Vanadium	ug/L	12/05/94	25	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	25	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	25	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	25	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	25	--	--	--	ND	--	--	--
	ug/L	10/24/96	25	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	25	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	25	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	25	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	25	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	25	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	25	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	25	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	25	--	--	ND	ND	--	--	--
	ug/L	10/16/01	25	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	25	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	25	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	25	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	25	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	25	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	25	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	25	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	25	ND	60.5	ND	ND	--	--	--
	ug/L	04/25/06	25	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	25	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	25	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	25	ND	4.61 J	ND	ND	--	--	ND
	ug/L	10/29/08	25	ND	--	2.04 J	2.59 J	--	--	ND
	ug/L	03/24/09	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	25	4.70 J	ND	ND	ND	--	--	ND
	ug/L	09/21/11	25	ND	8.61 J	ND	ND	--	--	ND
	ug/L	03/21/12	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/20/12	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/20/13	25	ND	ND	ND	ND	--	--	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1		TSW-2		Blanks	
Zinc	ug/L	12/05/94	10	16		27		26		40		--		--		--	
SW Standard = 50 ug/L (AL)	ug/L	02/14/95	10	30		300		--		71		--		--		--	
	ug/L	04/03/95	10	10		ND		21		51		--		--		--	
	ug/L	10/30/95	10	ND		11		31		ND		--		--		--	
	ug/L	04/08/96	10	--		--		--		40		--		--		--	
	ug/L	10/24/96	10	28		ND		16		13		--		--		--	
	ug/L	04/15/97	10	20		20		40		30		--		--		--	
	ug/L	10/29/97	10	20		ND		ND		ND		--		--		--	
	ug/L	05/14/98	10	ND		ND		ND		ND		--		--		--	
	ug/L	11/11/98	10	ND		ND		144		ND		--		--		--	
	ug/L	06/04/99	10	ND		--		118		ND		--		--		--	
	ug/L	10/29/99	10	ND		--		ND		ND		--		--		--	
	ug/L	04/20/00	10	ND		--		394		ND		--		--		--	
	ug/L	11/07/00	10	--		--		ND		ND		--		--		--	
	ug/L	10/16/01	10	ND		--		26		ND		--		--		--	
	ug/L	04/24/02	10	ND		--		132		ND		--		--		--	
	ug/L	10/01/02	10	ND		--		ND		ND		--		--		--	
	ug/L	04/09/03	10	82.7		--		ND		63		--		--		--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--		--		--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--		--		--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/05	10	ND		487		ND		ND		--		--		--	
	ug/L	04/25/06	10	ND		ND		107		ND		--		--		--	
	ug/L	10/04/06	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/21/07	10	6.76	J	9.01	J	37		8.63	J	--		--		ND	
	ug/L	10/02/07	10	5.22	J	15.3	J	24.4		24		--		--		ND	
	ug/L	04/03/08	10	6.29	J	5.45	J	52.5		10.6		--		--		ND	
	ug/L	10/29/08	10	9.19	J	--		37.6		29.4		--		--		ND	
	ug/L	03/24/09	10	5.5	B	5.6	B	35.6		3.6	B	--		--		3.4	J
	ug/L	09/22/09	10	9.11	J	8.90	J	71.4		11.3		--		--		ND	
	ug/L	03/22/10	10	11.4		6.16	J	24.9		9.02	J	--		--		ND	
	ug/L	09/23/10	10	ND		4.03	J	46.1		18.8		--		--		ND	
	ug/L	03/16/11	10	30.6		5.84	J	53.8		8.11	J	--		--		ND	
	ug/L	09/21/11	10	6.85	J	22.1		69.0		ND		--		--		ND	
	ug/L	03/21/12	10	ND		ND		22.7		ND		--		--		ND	
	ug/L	09/20/12	10	ND		5.00	J	19.4		ND		--		--		ND	
	ug/L	03/20/13	10	ND		6.72	J	35.9		ND		--		--		ND	
Acetone	ug/L	12/05/94	100	ND		ND		ND		ND		--		--		--	
SW Standard = 2000 ug/L	ug/L	02/14/95	100	ND		ND		ND		ND		--		--		--	
	ug/L	04/03/95	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/30/95	100	ND		ND		ND		ND		--		--		--	
	ug/L	04/08/96	100	--		ND		ND		ND		--		--		--	
	ug/L	05/29/96	100	--		ND		ND		ND		--		--		--	
	ug/L	06/06/96	100	--		ND		ND		ND		--		--		--	
	ug/L	10/24/96	100	ND		ND		ND		ND		--		--		--	
	ug/L	04/15/97	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/29/97	100	ND		ND		ND		ND		--		--		--	
	ug/L	05/14/98	100	ND		ND		ND		ND		--		--		--	
	ug/L	11/11/98	100	ND		ND		ND		ND		--		--		--	
	ug/L	06/04/99	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/29/99	100	ND		ND		ND		ND		--		--		--	
	ug/L	04/20/00	100	ND		ND		ND		ND		--		--		--	
	ug/L	11/07/00	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/16/01	100	ND		--		ND		ND		--		--		--	
	ug/L	04/24/02	100	ND		--		ND		ND		--		--		--	
	ug/L	10/01/02	100	ND		--		ND		ND		--		--		--	
	ug/L	04/09/03	100	ND		--		ND		ND		--		--		--	
	ug/L	10/20/03	100	ND		ND		ND		ND		--		--		--	
	ug/L	03/24/04	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/27/04	100	ND		ND		ND		ND		--		--		--	
	ug/L	05/25/05	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/05	100	ND		ND		ND		ND		--		--		--	
	ug/L	04/25/06	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/06	100	ND		ND		ND		ND		--		--		ND	
	ug/L	03/21/07	100	ND		ND		ND		ND		--		--		ND	
	ug/L	10/02/07	100	3.51	B	1.73	B	ND		ND		--		--		5.5	J
	ug/L	04/03/08	100	ND		ND		ND		ND		--		--		ND	
	ug/L	10/29/08	100	ND		--		ND		ND		--		--		ND	
	ug/L	03/24/09	100	ND		ND		ND		ND		--		--		ND	
	ug/L	09/22/09	100	ND		ND		ND		ND		--		--		ND	
	ug/L	03/22/10	100	2.3	J	ND		ND		2.5	J	--		--		ND	
	ug/L	06/03/10	100	--		--		--		--		11	J	3.6	J	ND	
	ug/L	09/23/10	100	ND		ND		ND		ND		--		--		ND	
	ug/L	03/16/11	100	ND		4.2	J	3.0	J	ND		13	J	ND		ND	
	ug/L	09/21/11	100	ND		7.0	J	ND		ND		5.5	J	ND		ND	
	ug/L	03/21/12	100	ND		ND		ND		ND		dry		ND		ND	
	ug/L	09/20/12	100	ND		7.4	B	ND		ND		dry		4.7	B	7.0	J
	ug/L	03/20/13	100	ND		ND		ND		ND		Dry		ND		ND	

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1		BR-2		BR-3	SW-1	TSW-1	TSW-2	Blanks
Benzene	ug/L	12/05/94	1	ND		ND		ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	1	ND		ND		ND	ND	--	--	--
	ug/L	04/03/95	1	ND		ND		ND	ND	--	--	--
	ug/L	10/30/95	1	ND		ND		ND	ND	--	--	--
	ug/L	04/08/96	1	--		ND		ND	ND	--	--	--
	ug/L	05/29/96	1	--		ND		ND	ND	--	--	--
	ug/L	06/06/96	1	--		ND		ND	ND	--	--	--
	ug/L	10/24/96	1	ND		ND		ND	ND	--	--	--
	ug/L	04/15/97	1	ND		ND		ND	ND	--	--	--
	ug/L	10/29/97	1	ND		ND		ND	ND	--	--	--
	ug/L	05/14/98	1	ND		ND		ND	ND	--	--	--
	ug/L	11/11/98	1	ND		ND		ND	ND	--	--	--
	ug/L	06/04/99	1	ND		ND		ND	ND	--	--	--
	ug/L	10/29/99	1	ND		ND		ND	ND	--	--	--
	ug/L	04/20/00	1	ND		ND		ND	ND	--	--	--
	ug/L	11/07/00	1	ND		ND		ND	ND	--	--	--
	ug/L	10/16/01	1	ND		--		ND	ND	--	--	--
	ug/L	04/24/02	1	ND		--		ND	ND	--	--	--
	ug/L	10/01/02	1	ND		--		ND	ND	--	--	--
	ug/L	04/09/03	1	ND		--		ND	ND	--	--	--
	ug/L	10/20/03	1	ND		ND		ND	ND	--	--	--
	ug/L	03/24/04	1	ND		ND		ND	ND	--	--	--
	ug/L	10/27/04	1	ND		ND		ND	ND	--	--	--
	ug/L	05/25/05	1	ND		ND		ND	ND	--	--	--
	ug/L	10/04/05	1	ND		ND		ND	ND	--	--	--
	ug/L	04/25/06	1	ND		ND		ND	ND	--	--	--
	ug/L	10/04/06	1	ND		ND		ND	ND	--	--	ND
	ug/L	03/21/07	1	ND		0.86	J	ND	ND	--	--	ND
	ug/L	10/02/07	1	0.16	J	0.76	J	ND	ND	--	--	ND
	ug/L	04/03/08	1	ND		0.39	J	ND	ND	--	--	ND
	ug/L	10/29/08	1	0.12	J	--		ND	ND	--	--	ND
	ug/L	03/24/09	1	ND		ND		ND	ND	--	--	ND
	ug/L	09/22/09	1	ND		ND		ND	ND	--	--	ND
	ug/L	03/22/10	1	ND		ND		ND	ND	--	--	ND
	ug/L	06/03/10	1	--		--		--	--	ND	ND	ND
	ug/L	09/23/10	1	ND		ND		ND	ND	--	--	ND
	ug/L	03/16/11	1	ND		ND		ND	ND	ND	ND	ND
	ug/L	09/21/11	1	ND		ND		ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND		0.46	J	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	ND		ND		ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND		ND		ND	ND	Dry	ND	ND
Chlorobenzene	ug/L	12/05/94	3	ND		ND		ND	ND	--	--	--
SW Standard = 140 ug/L	ug/L	02/14/95	3	ND		ND		ND	ND	--	--	--
	ug/L	04/03/95	3	ND		ND		ND	ND	--	--	--
	ug/L	10/30/95	3	ND		ND		ND	ND	--	--	--
	ug/L	04/08/96	3	--		ND		ND	ND	--	--	--
	ug/L	05/29/96	3	--		ND		ND	ND	--	--	--
	ug/L	06/06/96	3	--		ND		ND	ND	--	--	--
	ug/L	10/24/96	3	ND		ND		ND	ND	--	--	--
	ug/L	04/15/97	3	ND		ND		ND	ND	--	--	--
	ug/L	10/29/97	3	ND		ND		ND	ND	--	--	--
	ug/L	05/14/98	3	ND		ND		ND	ND	--	--	--
	ug/L	11/11/98	3	ND		ND		ND	ND	--	--	--
	ug/L	06/04/99	3	ND		ND		ND	ND	--	--	--
	ug/L	10/29/99	3	ND		ND		ND	ND	--	--	--
	ug/L	04/20/00	3	ND		ND		ND	ND	--	--	--
	ug/L	11/07/00	3	ND		ND		ND	ND	--	--	--
	ug/L	10/16/01	3	ND		--		ND	ND	--	--	--
	ug/L	04/24/02	3	ND		--		ND	ND	--	--	--
	ug/L	10/01/02	3	ND		--		ND	ND	--	--	--
	ug/L	04/09/03	3	ND		--		ND	ND	--	--	--
	ug/L	10/20/03	3	ND		ND		ND	ND	--	--	--
	ug/L	03/24/04	3	ND		ND		ND	ND	--	--	--
	ug/L	10/27/04	3	ND		ND		ND	ND	--	--	--
	ug/L	05/25/05	3	ND		ND		ND	ND	--	--	--
	ug/L	10/04/05	3	ND		ND		ND	ND	--	--	--
	ug/L	04/25/06	3	ND		ND		ND	ND	--	--	--
	ug/L	10/04/06	3	ND		ND		ND	ND	--	--	ND
	ug/L	03/21/07	3	ND		1.69		ND	ND	--	--	ND
	ug/L	10/02/07	3	0.86	J	2.2	J	ND	ND	--	--	ND
	ug/L	04/03/08	3	0.43	J	1.22	J	ND	ND	--	--	ND
	ug/L	10/29/08	3	0.86	J	--		ND	ND	--	--	ND
	ug/L	03/24/09	3	0.53	J	0.72	J	ND	ND	--	--	ND
	ug/L	09/22/09	3	ND		1.0	J	ND	ND	--	--	ND
	ug/L	03/22/10	3	ND		0.77	J	ND	ND	--	--	ND
	ug/L	06/03/10	3	--		--		--	--	ND	ND	ND
	ug/L	09/23/10	3	0.42	J	0.79	J	ND	ND	--	--	ND
	ug/L	03/16/11	3	ND		1.1	J	ND	ND	ND	ND	ND
	ug/L	09/21/11	3	ND		ND		ND	ND	ND	ND	ND
	ug/L	03/21/12	3	ND		2.2	J	ND	ND	dry	ND	ND
	ug/L	09/20/12	3	ND		ND		ND	ND	dry	ND	ND
	ug/L	03/20/13	3	ND		0.46	J	ND	ND	Dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Dibromochloromethane	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	1	ND	ND	ND	0.14 J	--	--	ND
	ug/L	10/29/08	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	3	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	3	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	3	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	3	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	3	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	3	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	3	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	3	ND	ND	ND	ND	Dry	ND	ND
1,2-Dichlorobenzene	ug/L	12/05/94	5	ND	ND	ND	ND	--	--	--
SW Standard = 470 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	5	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	5	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	5	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	5	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	5	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	5	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	5	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	5	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	5	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	5	0.27 J	0.23 J	ND	ND	--	--	ND
	ug/L	04/03/08	5	0.12 J	ND	ND	ND	--	--	ND
	ug/L	10/29/08	5	0.28 J	--	ND	ND	--	--	ND
	ug/L	03/24/09	5	ND	0.49 J	ND	ND	--	--	ND
	ug/L	09/22/09	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	5	ND	0.79 J	ND	ND	ND	ND	ND
	ug/L	09/21/11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	5	ND	0.51 J	ND	ND	dry	ND	ND
	ug/L	09/20/12	5	ND	0.59 J	ND	ND	dry	ND	ND
	ug/L	03/20/13	5	ND	ND	ND	ND	Dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
1,4-Dichlorobenzene	ug/L	12/05/94	1	ND	ND	ND	--	--	--	--
SW Standard = 100 ug/L	ug/L	02/14/95	1	ND	ND	ND	--	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	--	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	--	--	--	--
	ug/L	05/29/96	1	--	ND	ND	--	--	--	--
	ug/L	06/06/96	1	--	ND	ND	--	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	0.19 J	2.26	0.37 J	ND	--	--	ND
	ug/L	10/02/07	1	0.87 J	3.57	ND	ND	--	--	ND
	ug/L	04/03/08	1	0.39 J	1.55 J	ND	ND	--	--	ND
	ug/L	10/29/08	1	1.01 J	--	ND	ND	--	--	ND
	ug/L	03/24/09	1	0.59 J	2.4	ND	ND	--	--	ND
	ug/L	09/22/09	1	ND	1.6	ND	ND	--	--	ND
	ug/L	03/22/10	1	ND	1.4	ND	ND	--	--	ND
	ug/L	06/03/10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	1	ND	3.0	ND	ND	--	--	ND
	ug/L	03/16/11	1	ND	2.8	ND	ND	ND	ND	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND	4.5	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	0.40 J	5.9	ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND	1.4	ND	ND	Dry	ND	ND
1,1-Dichloroethane	ug/L	12/05/94	5	ND	ND	ND	ND	--	--	--
SW Standard = 20,000 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	5	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	5	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	5	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	5	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	5	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	5	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	5	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	5	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	5	ND	0.23 J	ND	ND	--	--	ND
	ug/L	10/02/07	5	0.21 J	0.41 J	ND	ND	--	--	ND
	ug/L	04/03/08	5	0.09 J	0.14 J	ND	ND	--	--	ND
	ug/L	10/29/08	5	0.18 J	--	ND	ND	--	--	ND
	ug/L	03/24/09	5	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	5	ND	ND	ND	ND	Dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
cis-1,2-Dichloroethene	ug/L	12/05/94	5	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	5	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	5	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	5	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	5	--	ND	ND	--	--	--	--
	ug/L	06/06/96	5	--	ND	ND	--	--	--	--
	ug/L	10/24/96	5	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	5	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	5	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	5	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	5	0.64 J	ND	ND	ND	--	--	ND
	ug/L	10/02/07	5	0.09 J	0.97 J	ND	ND	--	--	ND
	ug/L	04/03/08	5	ND	0.71 J	ND	ND	--	--	ND
	ug/L	10/29/08	5	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	5	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	5	ND	ND	ND	ND	Dry	ND	ND
Chloromethane	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	--	--	--	--
	ug/L	06/06/96	1	--	ND	ND	--	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	1	ND	0.43 J	ND	0.41 J	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	Dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Methylene chloride	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	--	--	0.41 J
	ug/L	04/03/08	1	ND	ND	ND	ND	--	--	0.42 J
	ug/L	10/29/08	1	ND	--	ND	0.19 J	--	--	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	Dry	ND	ND
Tetrachloroethene	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	0.24 J	ND	ND	--	--	ND
	ug/L	04/03/08	1	ND	1.12	ND	ND	--	--	ND
	ug/L	10/29/08	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1	ND	0.42 J	ND	ND	--	--	ND
	ug/L	03/22/10	1	ND	0.62 J	ND	ND	--	--	ND
	ug/L	06/03/10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	Dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Toluene	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
SW Standard = 11 ug/L	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	ND	0.29 J	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	1	ND	ND	ND	ND	--	--	0.6 J
	ug/L	10/29/08	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	3.6	ND	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	Dry	ND	ND
Trichloroethene	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	1 J	ND	ND	--	--	ND
	ug/L	04/03/08	1	ND	1.23 J	ND	ND	--	--	ND
	ug/L	10/29/08	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	Dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Vinyl chloride	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	0.52 J	ND	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	0.47 J	ND	ND	--	--	ND
	ug/L	04/03/08	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	Dry	ND	ND
Xylenes (Total)	ug/L	12/05/94	5	ND	ND	ND	0.04	--	--	--
SW Standard = 670 ug/L	ug/L	02/14/95	5	ND	ND	ND	0.071	--	--	--
	ug/L	04/03/95	5	ND	ND	ND	0.051	--	--	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	5	--	ND	ND	0.04	--	--	--
	ug/L	05/29/96	5	--	ND	ND	--	--	--	--
	ug/L	06/06/96	5	--	ND	ND	--	--	--	--
	ug/L	10/24/96	5	ND	ND	ND	0.013	--	--	--
	ug/L	04/15/97	5	ND	ND	ND	0.03	--	--	--
	ug/L	10/29/97	5	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	5	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	5	ND	--	ND	0.063	--	--	--
	ug/L	10/20/03	5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	5	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	5	ND	0.17 J	ND	ND	--	--	ND
	ug/L	04/03/08	5	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	5	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	5	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	5	ND	ND	ND	ND	Dry	ND	ND

TABLE 5

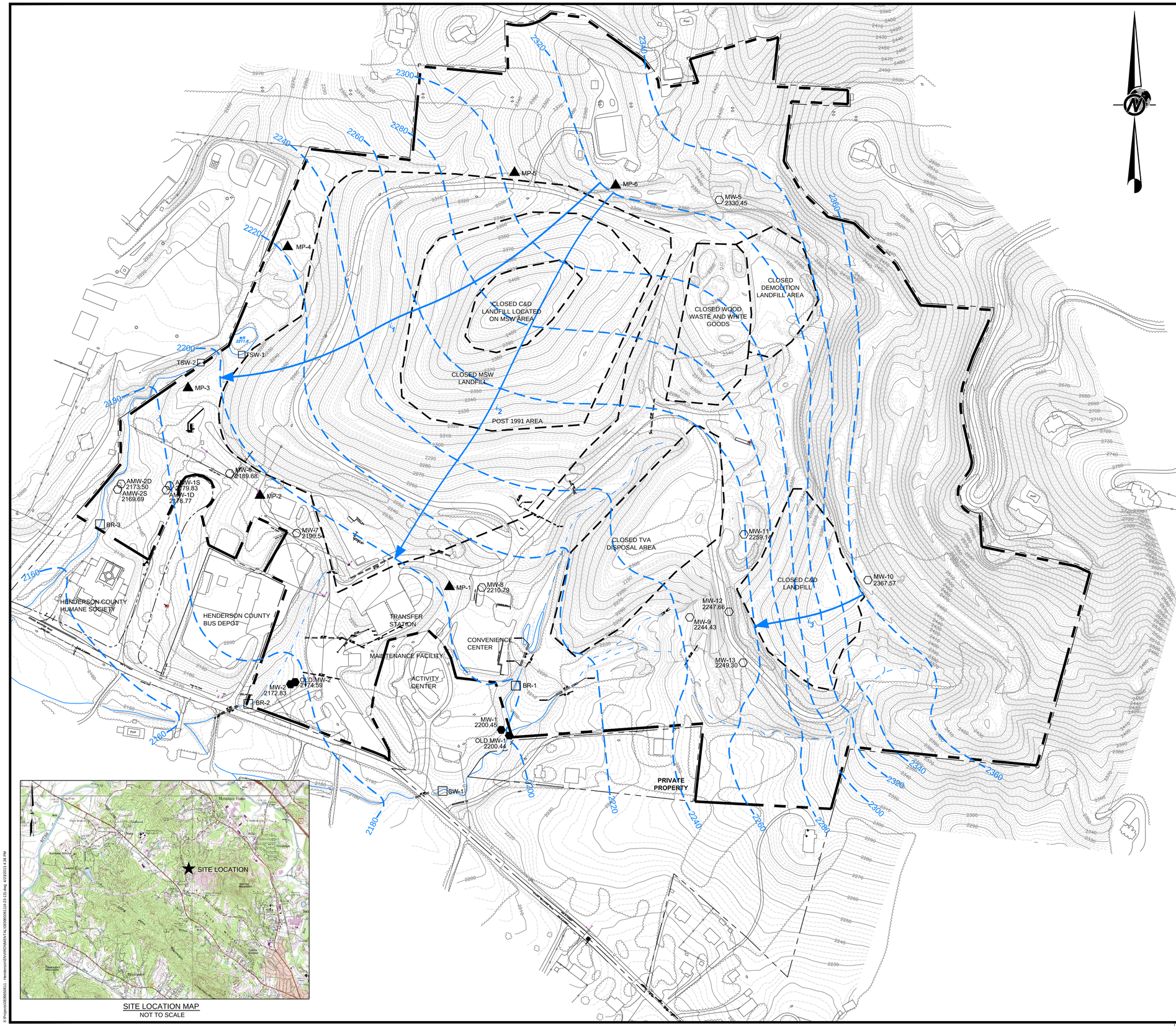
Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
pH (field)	S.U.	10/05/06	--	5.90	6.62	6.74	6.80	--	--	--
	S.U.	10/02/07	--	6.35	6.37	6.25	7.20	--	--	--
	S.U.	04/01/08	--	6.61	6.41	6.35	7.32	--	--	--
	S.U.	03/24/09	--	7.48	7.83	7.50	7.84	--	--	--
	S.U.	09/22/09	--	6.94	6.81	7.06	7.01	--	--	--
	S.U.	03/22/10	--	6.29	6.32	6.34	6.75	--	--	--
	S.U.	06/03/10	--	--	--	--	--	7.21	6.33	--
	S.U.	09/23/10	--	7.27	7.17	6.55	7.44	--	--	--
	S.U.	03/16/11	--	7.16	6.42	6.48	6.65	7.47	6.85	--
	S.U.	09/21/11	--	6.95	7.51	6.65	7.41	7.12	7.02	--
	S.U.	03/21/12	--	6.62	6.67	6.32	6.93	dry	6.46	--
	S.U.	09/20/12	--	7.18	5.24	7.69	7.75	dry	6.96	--
	S.U.	03/20/13	--	6.61	7.06	6.45	6.89	dry	6.53	--
Conductivity (field)	uS/cm	10/05/06	--	530	765	1512	184	--	--	--
	uS/cm	10/02/07	--	498	1029	3037	321	--	--	--
	uS/cm	04/01/08	--	400	932	2355	400	--	--	--
	uS/cm	03/24/09	--	620	810	3230	360	--	--	--
	uS/cm	09/22/09	--	388	845	1328	338	--	--	--
	uS/cm	03/22/10	--	343	783	403	317	--	--	--
	uS/cm	06/03/10	--	--	--	--	--	779	599	--
	uS/cm	09/23/10	--	506	1217	2605	343	--	--	--
	uS/cm	03/16/11	--	357	715	2341	354	284	1713	--
	uS/cm	09/21/11	--	484	863	2149	326	574	3175	--
	uS/cm	03/21/12	--	347	1025	2466	250	dry	2951	--
	uS/cm	09/20/12	--	418	1017	3162	269	dry	430	--
	uS/cm	03/20/13	--	171	456	1567	177	dry	1919	--
Temperature (field)	Celsius	10/05/06	--	15.7	16.0	15.9	17.0	--	--	--
	Celsius	10/02/07	--	13.6	14.9	15.3	14.9	--	--	--
	Celsius	04/01/08	--	15.9	10.7	10.7	15.9	--	--	--
	Celsius	03/24/09	--	13.4	14.8	8.2	14.4	--	--	--
	Celsius	09/22/09	--	20.54	18.56	19.52	19.20	--	--	--
	Celsius	03/22/10	--	6.79	8.12	7.74	7.76	--	--	--
	Celsius	06/03/10	--	--	--	--	--	29.51	17.45	--
	Celsius	09/23/10	--	20.05	18.13	19.60	19.38	--	--	--
	Celsius	03/16/11	--	8.13	11.22	11.32	7.06	17.76	11.62	--
	Celsius	09/21/11	--	16.71	20.10	18.13	16.55	19.50	15.48	--
	Celsius	03/21/12	--	13.40	16.98	17.67	14.38	dry	17.50	--
	Celsius	09/20/12	--	15.70	17.80	16.07	16.27	dry	15.94	--
	Celsius	03/20/13	--	2.39	10.28	7.76	7.72	dry	5.53	--
Turbidity (field)	NTU	03/24/09	--	34.2	12.7	3.02	6.58	--	--	--
	NTU	09/22/09	--	69.3	29.7	24.9	9.06	--	--	--
	NTU	03/22/10	--	29.6	12.6	10	23	--	--	--
	NTU	06/03/10	--	--	--	--	--	260	17.1	--
	NTU	09/23/10	--	54.2	6.72	11.3	3.51	--	--	--
	NTU	03/16/11	--	74.6	8.59	23.6	20.7	50.8	6.27	--
	NTU	09/21/11	--	66.4	215	42.8	35.9	19.5	23.6	--
	NTU	03/21/12	--	27.7	97.4	17.0	11.4	dry	10.7	--
	NTU	09/20/12	--	67.0	30.2	12.5	67.0	dry	56.9	--
	NTU	03/20/13	--	40.7	19.1	10.1	9.60	dry	4.31	--
Oxidation Reduction Potential (field)	mV	09/22/09	--	-27.9	-51.1	-35.1	26.6	--	--	--
	mV	03/22/10	--	-9.7	-45.7	47.1	-29.0	--	--	--
	mV	06/03/10	--	--	--	--	--	-73.7	3.0	--
	mV	09/23/10	--	-27.2	-134.9	-2.0	30.2	--	--	--
	mV	03/16/11	--	15.1	31.4	1.3	-1.6	106.2	-6.5	--
	mV	09/21/11	--	-34.1	-25.4	-18.9	-41.0	9.3	-24.9	--
	mV	03/21/12	--	15.4	-51.4	11.0	7.71	dry	70.0	--
	mV	09/20/12	--	-180.3	1.0	-136.6	-129.5	dry	-124.9	--
	mV	03/20/13	--	1.5	-42.3	9.7	-1.7	dry	30.1	--
Dissolved Oxygen (field)	mg/L	09/22/09	--	4.00	4.20	4.33	5.02	--	--	--
	mg/L	03/22/10	--	10.99	9.49	9.03	10.47	--	--	--
	mg/L	06/03/10	--	--	--	--	--	--	--	--
	mg/L	09/23/10	--	6.87	24.0	6.36	6.28	--	--	--
	mg/L	3/16/11	--	14.68	13.44	8.76	10.47	18.12	8.29	--
	mg/L	09/21/11	--	7.42	6.32	6.90	8.74	6.61	7.64	--
	mg/L	03/21/12	--	8.37	6.04	7.23	13.9	dry	7.05	--
	mg/L	9/20/12	--	5.53	12.35	6.67	7.13	dry	6.47	--
	mg/L	3/20/13	--	--	--	--	--	dry	--	--

Notes:

mg/L = milligrams per liter
ug/L = micrograms per liter
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
ND = Not detected at the stated reporting limit
uS/cm = microsiemens per centimeter
mV = Millivolts
J = Estimated concentration
B = Blank-qualified result
-- = no data available
dry = there was no discernible flow and a sample was not collected.
SW Standard = Surface Water Standard based on Freshwater Aquatic Life Classification
1) Surface Water Standards based on Fresh Water Aquatic Life Classification
Blanks = field, trip and method blanks
SWS Reporting Limit = NCPQL or lab-specific reporting limit prior to October 2007 and NCSWSL starting in October 2007
(N) = Narrative Standard
(AL) = Action Level Standard
1) Historical data prior to March 2009 provided by Henderson County and CDM.
2) TSW-1 and TSW-2 were added as temporary monitoring points during the March 2011 event.

DRAWING



LEGEND

- EXISTING 10 FT. CONTOUR
- EXISTING 2 FT. CONTOUR
- PROPERTY LINE
- LIMITS OF WASTE
- STREAM
- BUFFER
- TREELINE
- EXISTING ROAD
- FENCE
- GROUNDWATER SURFACE CONTOURS
- APPROXIMATE GROUNDWATER FLOW SEGMENT USED TO CALCULATE GRADIENT
- MW-8 2210.79 — COMPLIANCE MONITORING WELL AND IDENTIFICATION
- MW-1 — NON COMPLIANCE MONITORING WELL AND IDENTIFICATION
- MP-6 — METHANE MONITORING PROBE AND IDENTIFICATION
- BR-1 — SURFACE WATER MONITORING POINT AND IDENTIFICATION

NOTES

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 20 FEET
3. GROUNDWATER ELEVATIONS MEASURED ON MARCH 20, 2013.
4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL CONDITIONS.
5. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL
6. COORDINATE SYSTEM IS N.C. STATE PLANE GRID.
7. TOPOGRAPHIC DIVIDING LINE DIVIDES THE BASE MAP TOPOGRAPHIC CONTOURS FROM LANDSAT TOPOGRAPHIC CONTOURS. LANDSAT TOPOGRAPHIC CONTOURS HAVE A 5-CONTOUR INTERVAL.

REFERENCES

1. BASE MAP PROVIDED BY CAMP DRESSER & McKEE FROM PREVIOUS WATER QUALITY MONITORING REPORTS.

150 0 150 300
SCALE FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
2	04/12/13	DAC	REVISED GW CONTOURS	BSD		
1	11/21/12	DYR	REVISED GW CONTOURS	LKB	DYR	RPK

PROJECT
HENDERSON COUNTY CLOSED MSW AND C&D LANDFILL
PERMIT # 45-01

TITLE
GROUNDWATER SURFACE CONTOUR MAP
MARCH 20, 2013

Golder Associates
GOLDER ASSOCIATES NC, INC.

PROJECT No.	083-9650612		FILE No. 083965061(4-23-13)
DESIGN	JAD	04/28/09	SCALE AS SHOWN REV. –
CADD	LKB	04/28/09	
CHECK	DYR	06/30/09	DWG. 1
REVIEW	RPK	06/30/09	

APPENDIX A

GROUNDWATER AND SURFACE WATER SAMPLING LOGS

Golder Associates

DATE: 3/20/13

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650612*
Well ID: MW-5 **Sampler(s):** B. Freyer, D. Childress
Well Diameter: 2 inches **Int. Depth to Water:** 59.37 feet
Depth to Bottom: 74.00 feet **Total Water Column:** 14.63 feet
Well Volume: 2.37 gallons **3x Well Volume:** 7.11 gallons
Well Location: on hill above green waste area
Equipment: YSI 556, Hach turbidimeter, WL meter, disposable poly bailer

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1340	5.92	0.133	>1000	14.78	0
1343	5.75	0.119	>1000	13.94	2.5
1350	5.75	0.101	>1000	13.73	5.0
1359	5.75	0.098	>1000	13.79	7.11
3/21/13 sampled @			1010		
1010	5.60	0.090	107	12.82	—

Comments (weather conditions, color, type of sample, purge-water management, etc.):
40's, sunny, windy
3/21/13 20's, clear, windy
* filtered sample collected in addition to total metals

Signature: [signature] **Date:** 3/21/13

QA/QC Sign Off: [signature] **Date:** 5-9-13

DATE: 3/20/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *0839650612*
Well ID: MW-6
Sampler(s): B. Freyer, D. Childress
Well Diameter: 2 inches
Int. Depth to Water: 14.56 feet
Depth to Bottom: 19.26 feet
Total Water Column: 4.70 feet
Well Volume: 0.76 gallons
3x Well Volume: 2.28 gallons
Well Location: along entrance road behind retaining wall near scalehouse
Equipment: YSI 556, Hach turbidimeter, WL meter, disposable poly bailer

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1523	6.77	0.134	60.7	14.20	Ø
1526	6.21	0.127	294	14.11	0.75
1529	6.08	0.127	472	14.18	1.50
1532	6.07	0.130	299	14.23	2.30
3/21/13 sample @ 1130					
1130	6.11	0.147	93.6	13.84	—

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Sunny, 50's, breeze

20's, windy, clear (3/21/13) *Filtered sample collected due to flocs

Signature: B. Freyer
Date: 3/21/13

QA/QC Sign Off: [signature]
Date: 5-9-13

DATE: 3/20/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650612*
Well ID: MW-7 **Sampler(s):** B. Freyer, D. Childress
Well Diameter: 2 inches **Int. Depth to Water:** 20.12 feet
Depth to Bottom: 28.11 feet **Total Water Column:** 7.99 feet
Well Volume: 1.30 gallons **3x Well Volume:** 3.90 gallons
Well Location: next to scalehouse, behind guardrail
Equipment: YSI 556, Hach turbidimeter, wet water, disposable poly, bailer

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1600	5.98	0.453	7.97	16.87	Ø
1603	6.03	0.468	39.7	16.82	1.3
1605	6.03	0.523	63.3	16.81	2.6
1608	6.02	0.510	71.4	16.78	3.9
		Sampled @	1608		

Comments (weather conditions, color, type of sample, purge-water management, etc.):
50's, clear, breeze

Signature: B. Freyer **Date:** 3/20/13

QA/QC Sign Off: Paul Ready **Date:** 5-9-13

DATE: 3/20/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *0839650612*
Well ID: MW-8
Sampler(s): B. Freyer, D. Childress
Well Diameter: 2 inches
Int. Depth to Water: 25.08 feet
Depth to Bottom: 31.30 feet
Total Water Column: 6.22 feet
Well Volume: 1.01 gallons
3x Well Volume: 3.03 gallons
Well Location: near tire drop off
Equipment: YSI 556, Hach turbidimeter, pH meter, disposable poly bailer

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1419	6.09	0.926	142	16.37	Ø
1422	6.35	1.055	342	16.44	1.01
1430	6.19	0.894	88.3	16.26	2.02
1434	6.21	0.863	89.5	16.17	3.03
	sample @		1434		

Comments (weather conditions, color, type of sample, purge-water management, etc.):
40's, sunny, windy

Signature: B J Fry
Date: 3/20/13

QA/QC Sign Off: Paul Reedy
Date: 5-5-13

Golder Associates

DATE: 3/20/13

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *0839650612*
Well ID: MW-9
Sampler(s): B. Freyer, D. Childress
Well Diameter: 2 inches
Int. Depth to Water: 15.16 feet
Depth to Bottom: 28.42 feet
Total Water Column: 13.26 feet
Well Volume: 2.16 gallons
3x Well Volume: 6.48 gallons
Well Location: downhill from convenience center road
Equipment: YSI 556, Hach turbidimeter, WL meter, disposable poly bailer

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1159	4.95	0.122	101	12.61	Ø
1202	4.87	0.122	131	13.12	2.2
1206	4.96	0.115	124	13.05	4.4
1210	5.02	0.112	107	13.29	6.5
	3/21/13	sampled @ 0940			
0940	4.85	0.113	4.20	11.54	—

Comments (weather conditions, color, type of sample, purge-water management, etc.):
40's, sunny, breezy

3/21/13 20's, windy

Signature: B J Fry
Date: 3/21/13

QA/QC Sign Off: [illegible]
Date: 5-9-13

DATE: 3/20/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *0839650612*
Well ID: MW-10
Sampler(s): B. Freyer, D. Childress
Well Diameter: 2 inches
Int. Depth to Water: 36.98 feet
Depth to Bottom: 46.50 feet
Total Water Column: 9.52 feet
Well Volume: 1.55 gallons
3x Well Volume: 4.65 gallons
Well Location: on hill above closed C&D, convenience center
Equipment: YSI 556, Hach turbidimeter, WL meter, disposable poly bailer

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
0915	5.66	0.040	9.94	11.96	0
0919	5.84	0.037	161	13.52	1.5
0922	5.84	0.037	123	13.46	3.0
0926	5.84	0.036	200	13.59	4.65
3/21/13	sampled @ 0830				
0830	5.86	0.036	4.86	9.27	–

Comments (weather conditions, color, type of sample, purge-water management, etc.):
30's, over cast, windy

20's, clear, windy (3/24/13)

Signature: B J Fry
Date: 3/21/13

QA/QC Sign Off: [illegible]
Date: 5-9-13

DATE: 3/21/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: Henderson Co
Project No./Phase No.: 0839650612
Well ID: MW-11
Sampler(s): B. Freyer, D Childress
Well Diameter: 2 inches
Int. Depth to Water: 48.58 feet
Depth to Bottom: 58.49 feet
Total Water Column: 9.91 feet
Well Volume: 1.62 gallons
3x Well Volume: 4.86 gallons
Well Location: flush mount @ convenience center (open w/3/4" ratchet)
Equipment: YSI 556, Hach turbidimeter, WL meter, portable bladder pump

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1300	5.53	0.215	>1000	13.18	Ø
1310	5.36	0.199	20.3	13.74	1.62
1320	5.36	0.204	14.9	13.50	3.24
1330	5.37	0.213	11.9	13.86	4.86
		sampled @	1330		

DTW
49.30
51.07
~~54.55~~ BF 53.55
53.41

Comments (weather conditions, color, type of sample, purge-water management, etc.):
20's, windy, clear

Signature: [signature] **Date:** 3/21/13

QA/QC Sign Off: [signature] **Date:** 5-9-13

DATE: 3/20/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650612*
Well ID: MW-12 **Sampler(s):** B. Freyer, D. Childress
Well Diameter: 2 inches **Int. Depth to Water:** 52.43 feet
Depth to Bottom: 62.90 feet **Total Water Column:** 10.47 feet
Well Volume: 1.70 gallons **3x Well Volume:** 5.10 gallons
Well Location: along entrance road to convenience center
Equipment: YSI 556, Hach turbidimeter, bailer water, disposable poly bailer

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1126	5.61	0.191	16.4	13.38	0
1131	5.67	0.265	98.4	13.75	1.7
1138	5.71	0.274	245	13.86	3.4
1146	5.72	0.270	228	13.89	5.1
3/21/13 sampled @ 0918					
0918	5.63	0.252	12.2	12.44	—

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Overcast, 30's

3/21/13 20's, windy, clear

Signature: [signature] **Date:** 3/21/13

QA/QC Sign Off: [signature] **Date:** 5-9-13

DATE: 3/20/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *0839650612*
Well ID: MW-13
Sampler(s): B. Freyer, D. Childress
Well Diameter: 2 inches
Int. Depth to Water: 47.03 feet
Depth to Bottom: 91.11 feet
Total Water Column: 44.08 feet
Well Volume: 7.14 gallons
3x Well Volume: 21.42 gallons
Well Location: E Aborg Convenience center Rd. before gate
Equipment: YSI 556, Water Level Meter, Poly bailers

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
0953	6.07	0.210	2.04	13.10	0
1013	5.72	0.215	5.41	12.83	7.5
1038	5.76	0.216	14.8	12.90	15
1101	5.73	0.215	20.4	13.00	21.5
		Sampled	@ 1101		

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Weather: 39°F, overcast, light breeze

Signature: Daniel Childress **Date:** 3/20/13

QA/QC Sign Off: [illegible] **Date:** 5-7-13

DATE: 3/20/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650612*
Well ID: AMW-1s **Sampler(s):** B. Freyer, D. Childress
Well Diameter: 2 inches **Int. Depth to Water:** 13.26 feet
Depth to Bottom: 29.01 ~~841.05~~ feet **Total Water Column:** 15.75 feet
Well Volume: 2.56 gallons **3x Well Volume:** 7.68 gallons
Well Location: near seal pond by animal shelter
Equipment: YSI 556, Hach turbidimeter, WL meter, disposable poly bailer

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1649	5.86	0.219	6.74	13.96	Ø
1655	6.00	0.286	22.9	13.71	2.5
1702	6.16	0.376	58.0	13.22	5.0
1711	6.24	0.565	135	13.62	7.7
3/21/13 sampled @ 1535					
1535	5.84	0.211	5.15	12.68	—

Comments (weather conditions, color, type of sample, purge-water management, etc.):
50's, clear, windy

Signature: [illegible] **Date:** 3/21/13

QA/QC Sign Off: [illegible] **Date:** 5-5-13

Golder Associates

DATE: 3/20/13

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650612*
Well ID: AMW-1D **Sampler(s):** B. Freyer, D. Childress
Well Diameter: 2 inches **Int. Depth to Water:** 14.00 feet
Depth to Bottom: 62.88 feet **Total Water Column:** 48.88 feet
Well Volume: 7.92 gallons **3x Well Volume:** 23.76 gallons
Well Location: Nested w/ AMW-1S outside main gate
Equipment: YSI 556, Water Level meter, Poly bailer, Hach Turbidimeter

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1647	6.88	0.507	9.71	14.60	0
1704	6.07	0.522	8.55	13.47	8
1719	6.04	0.513	7.12	13.90	16
1807	6.08	0.490	4.36	13.90	23.8
3/21/13 sampled @ 1545					
1545	6.06	0.479	1.74	13.26	—

* Lost bailer down well w/out string

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Weather: 51°F, scattered clouds, light breeze

Signature: Daniel Childress **Date:** 3/20/13

QA/QC Sign Off: [illegible] **Date:** 5-9-13

Golder Associates

DATE: 3/20/13

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650612*
Well ID: AMW-2S **Sampler(s):** B. Freyer, D. Childress
Well Diameter: 2 inches **Int. Depth to Water:** 7.97 feet
Depth to Bottom: 25.30 feet **Total Water Column:** 17.33 feet
Well Volume: 2.82 gallons **3x Well Volume:** 8.46 gallons
Well Location: Nested w/ AMW-2D in woods below sed pond outside main entrance
Equipment: YSI 556, Water Level meter, Hach Turbidimeter, Poly bailer

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1842	5.91	0.191	432	11.21	0
1849	5.98	0.238	524	11.04	3
1855	5.98	0.300	759	11.66	6
1903	6.09	0.368	>1000	11.36	9
3/21/13 sampled @ 1555					
1555	5.95	0.238	5.25	10.12	—

Comments (weather conditions, color, type of sample, purge-water management, etc.):
weather: scattered clouds, 47°F

Signature: Daniel Childress **Date:** 3/20/13

QA/QC Sign Off: Paul Reedy **Date:** 5-9-13

DATE: 3/20/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650612*
Well ID: AMW-2D **Sampler(s):** B. Freyer, D. Childress
Well Diameter: 2 inches **Int. Depth to Water:** 4.08 feet
Depth to Bottom: 84.05 feet **Total Water Column:** 79.97 feet
Well Volume: 13.04 gallons **3x Well Volume:** 39.12 gallons
Well Location: nested w/ AMW-2S, in treeline near animal shelter
Equipment: YSI 556, Hach turbidimeter, WL meter, disposable poly bailer

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1743	6.82	0.088	4.98	9.96	Ø
1813	6.78	0.085	11.1	13.33	13
1836	6.33	0.089	4.76	13.24	26
1906	6.36	0.092	11.1	13.24	39
3/21/13 sampled @ 1600					
1600	6.31	0.082	1.08	9.10	—

Comments (weather conditions, color, type of sample, purge-water management, etc.):
40's, clear, windy

Signature: [signature] **Date:** 3/21/13

QA/QC Sign Off: [signature] **Date:** 5-5-13

DATE: 3/21/13

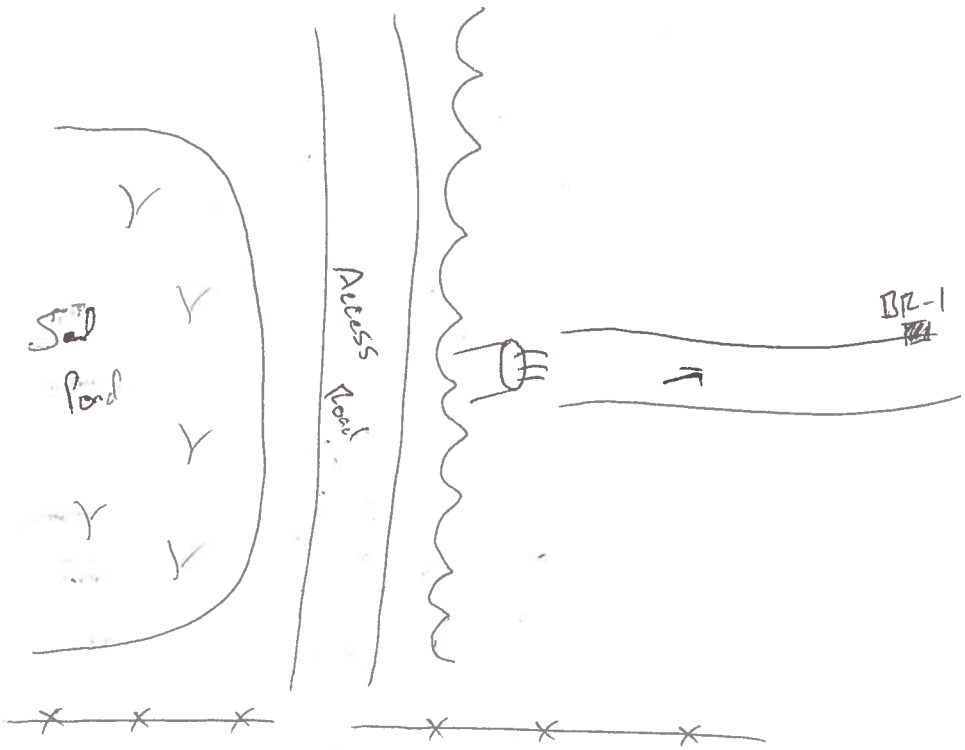
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: Henderson Co. **Project No./Phase No.:** 0839650612
Sample ID: BR-1 **Sampler(s):** B. Freyer, D. Childress
Sampling Location: behind tire drop off in woods
Equipment: YSI 556, Hanna Turbidimeter

Time	1055
pH s.u.	6.61
Cond. mS/cm	0.171
Turb. ntu	40.7
Dis. O_2 mg/L	—
Temp. °C	2.39
ORP mv	1.5

Surface Water Sampling Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
20's, clear, windy

Signature: [signature] **Date:** 3/21/13

QA/QC Sign Off: [signature] **Date:** 5-9-13

DATE: 3/21/13

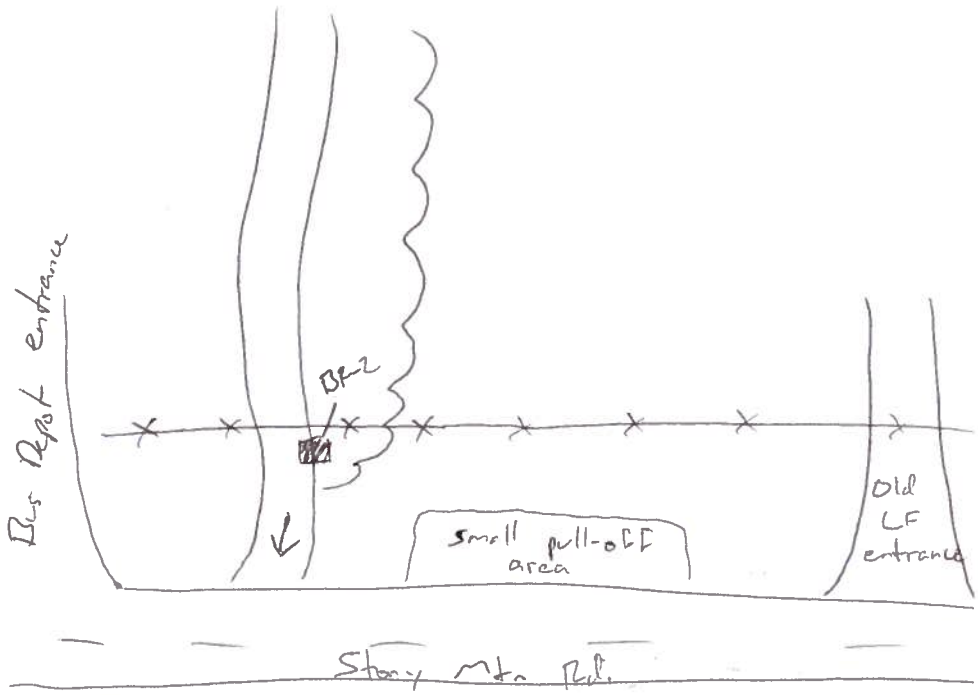
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: Henderson Co. **Project No./Phase No.:** 0839650612
Sample ID: BR-2 **Sampler(s):** B. Freyer, D. Childress
Sampling Location: stream next to Bus Depot entrance @ property boundary
Equipment: YSI 556, Hanna Turbidimeter

Time	1510
pH s.u.	7.06
Cond. mS/cm	0.456
Turb. ntu	19.1
Dis. O_2 mg/L	—
Temp. °C	10.28
ORP mv	-42.3

Surface Water Sampling Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
30's, clear, windy

Signature: [signature] **Date:** 3/21/13

QA/QC Sign Off: [signature] **Date:** 5-9-13

DATE: 3/21/13

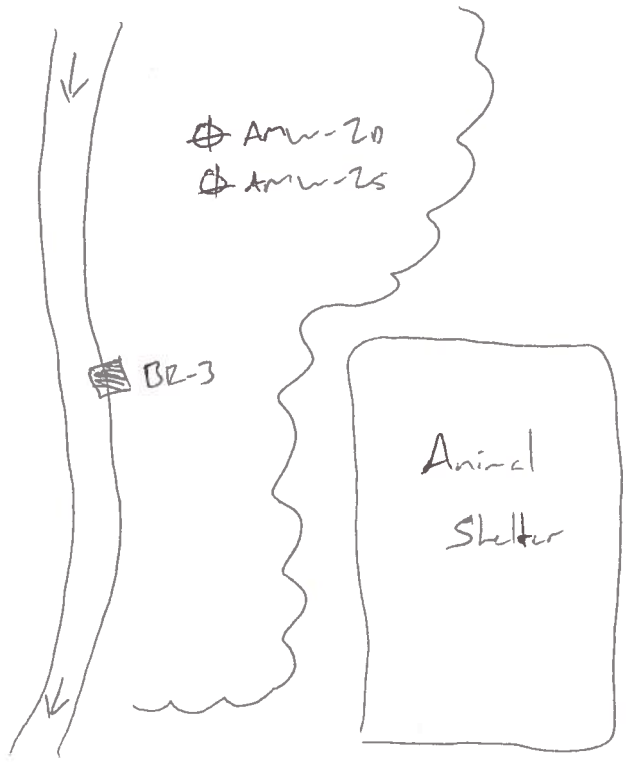
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: Henderson Co. **Project No./Phase No.:** 0839650612
Sample ID: BR-3 **Sampler(s):** B. Freyer, D. Childress
Sampling Location: stream behind Animal Shelter @ property boundary
Equipment: YSI 556, Hanna Turbidimeter

Time	1610
pH s.u.	6.45
Cond. mS/cm	1.567
Turb. ntu	10.1
Dis. O_2 mg/L	—
Temp. °C	7.76
ORP mv	9.7

Surface Water Sampling Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
20's, windy, clear

Signature: [illegible] **Date:** 3/21/13

QA/QC Sign Off: [illegible] **Date:** 5-9-13

DATE: 3/21/13

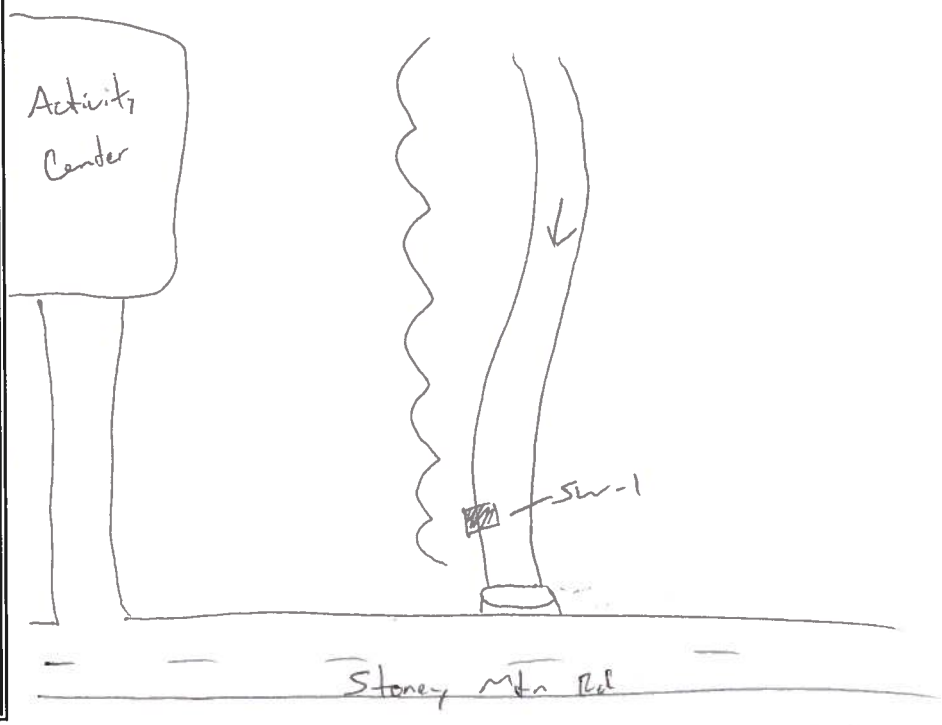
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: Henderson Co. **Project No./Phase No.:** 0839650612
Sample ID: SW-1 **Sampler(s):** B. Freyer, D. Childress
Sampling Location: stream near activity center
Equipment: YSI 556, Hanna Turbidimeter

Time	1445
pH s.u.	6.89
Cond. mS/cm	0.177
Turb. ntu	9.60
Dis. O_2 mg/L	–
Temp. °C	7.72
ORP mv	-1.7

Surface Water Sampling Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
30's, windy, clear

Signature: [signature] **Date:** 3/21/13

QA/QC Sign Off: [signature] **Date:** 5-9-13

DATE: 3/20/13

Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: Henderson Co. **Project No./Phase No.:** 0839650612
Sample ID: TSW-1 **Sampler(s):** B. Freyer, D. Childress
Sampling Location: old sed pond behind Clare
Equipment: YSI 556, Hanna Turbidimeter

Time	1545
pH s.u.	—
Cond. mS/cm	—
Turb. ntu	—
Dis. O_2 mg/L	—
Temp. °C	—
ORP mv	—

Surface Water Sampling Location Sketch

Comments (sample methodology, weather conditions, color, silt, etc.):
not sampled, no visible flow

Signature: B J F **Date:** 3/20/13

QA/QC Sign Off: [signature] **Date:** 5-5-13

DATE: 3/21/13

SURFACE WATER SAMPLING LOG

Project Name: Henderson Co. **Project No./Phase No.:** 0839650612
Sample ID: TSW-2 **Sampler(s):** B. Freyer, D. Childress
Sampling Location: downstream of TSW-1
Equipment: YSI 556, Hanna Turbidimeter

Time	1155
pH s.u.	6.53
Cond. mS/cm	1.919
Turb. ntu	4.31
Dis. O_2 mg/L	—
Temp. °C	5.53
ORP mv	30.1

Surface Water Sampling Location Sketch

Comments (sample methodology, weather conditions, color, silt, etc.):
20's, windy, clear

Signature: [signature] **Date:** 3/21/13

QA/QC Sign Off: [signature] **Date:** 5-5-13

APPENDIX B

MARCH 2013 GROUNDWATER AND SURFACE WATER CERTIFICATE-OF-ANALYSIS, CHAIN-OF-CUSTODY FORMS AND LABORATORY DATA REVIEW

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Friday, April 5, 2013

Golder Associates, Inc. (GO007)

Attn: Dusty Reedy

5B Oak Branch Drive

Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 08396506012.100, Project Name/Desc: Henderson Co. LF
ENCO Workorder(s): C302336

Dear Dusty Reedy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, March 22, 2013.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Stephanie Franz

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 124.

www.encolabs.com

PROJECT NARRATIVE

Date: 05 April 2013
Client: Golder Associates, Inc. (GO007)
Project: Henderson Co. LF
Lab ID: C302336

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

The spike recovery of 1,1-Dichloroethene was outside of control limits for the 8260B MS and/or MSD samples. The QC batch was approved based on acceptable LCS recovery of this analyte.

The spike recovery of 2,4-D was outside of control limits for the 8151 A MS and MSD samples. The QC batch was approved based on acceptable LCS recovery of this analyte.

The spike recovery of PCB-1016/1242 was outside of control limits for the 8082 A MS and MSD samples. The QC batch was approved based on acceptable LCS recovery of this analyte.

The spike recoveries of Manganese and Mercury were outside of control limits for the MS, MSD, and/or Post Spike samples. The QC batches were approved based on acceptable LCS recovery of these analytes.

The spike recovery of Sulfide was outside of control limits for the MS and MSD samples. The QC batch was approved based on acceptable LCS recovery of this analyte.

Quality Control Remarks

No Comments

Other Comments

All samples received under this work order arrived in acceptable conditions. The samples were not checked for residual chlorine, as it is not required.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Stephanie Franz
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4501-MW5 (Background) **Lab ID: C302336-01** **Sampled: 03/21/13 10:10** **Received: 03/22/13 10:10**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/17/13		03/25/13	09:58	3/27/2013 14:29
EPA 6020A	09/17/13		03/25/13	10:00	3/27/2013 11:37
EPA 7470A	04/18/13		03/25/13	10:03	3/26/2013 13:31
EPA 8081B	03/28/13	05/06/13	03/27/13	10:48	4/3/2013 20:48
EPA 8082A	03/21/14	05/06/13	03/27/13	11:04	4/3/2013 20:48
EPA 8151A	03/28/13	05/06/13	03/27/13	03:30	3/28/2013 13:11
EPA 8260B	04/04/13		03/28/13	12:49	3/29/2013 08:01
EPA 8270D	03/28/13	05/05/13	03/26/13	08:38	3/29/2013 18:29
EPA 9014	04/04/13		03/29/13	09:10	3/31/2013 08:49
SM 4500S2 D-2000	03/28/13		03/25/13	11:30	3/25/2013 11:45

Client ID: 4501-MW6 **Lab ID: C302336-02** **Sampled: 03/21/13 11:30** **Received: 03/22/13 10:10**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/17/13		03/25/13	09:58	3/27/2013 14:38
EPA 6020A	09/17/13		03/25/13	10:00	3/27/2013 11:41
EPA 7470A	04/18/13		03/25/13	10:03	3/26/2013 13:34
EPA 8081B	03/28/13	05/06/13	03/27/13	10:48	4/3/2013 21:01
EPA 8082A	03/21/14	05/06/13	03/27/13	11:04	4/3/2013 21:01
EPA 8151A	03/28/13	05/06/13	03/27/13	03:30	3/28/2013 13:37
EPA 8270D	03/28/13	05/05/13	03/26/13	08:38	3/29/2013 18:56
EPA 9014	04/04/13		03/29/13	09:10	3/31/2013 08:51
SM 4500S2 D-2000	03/28/13		03/25/13	11:30	3/25/2013 11:45

Client ID: 4501-MW6 **Lab ID: C302336-02RE1** **Sampled: 03/21/13 11:30** **Received: 03/22/13 10:10**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	04/04/13		03/28/13	12:49	4/1/2013 16:25

Client ID: 4501-MW7 **Lab ID: C302336-03** **Sampled: 03/20/13 16:08** **Received: 03/22/13 10:10**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/16/13		03/25/13	09:58	3/27/2013 14:46
EPA 6020A	09/16/13		03/25/13	10:00	3/27/2013 11:45
EPA 7470A	04/17/13		03/25/13	10:03	3/26/2013 13:36
EPA 8081B	03/27/13	05/06/13	03/27/13	10:48	4/3/2013 21:15
EPA 8082A	03/20/14	05/06/13	03/27/13	11:04	4/3/2013 21:15
EPA 8151A	03/27/13	05/06/13	03/27/13	03:30	3/28/2013 14:03
EPA 8260B	04/03/13		03/28/13	12:43	3/28/2013 21:34
EPA 8270D	03/27/13	05/05/13	03/26/13	08:38	3/29/2013 19:23
EPA 9014	04/03/13		03/29/13	09:10	3/31/2013 08:53
SM 4500S2 D-2000	03/27/13		03/25/13	11:30	3/25/2013 11:45

www.encolabs.com

Client ID: 4501-MW8 (MS/MSD)	Lab ID: C302336-04	Sampled: 03/20/13 14:34	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/16/13		03/25/13	09:58	3/27/2013 14:17
EPA 6020A	09/16/13		03/25/13	10:00	3/27/2013 11:17
EPA 7470A	04/17/13		03/25/13	10:03	3/26/2013 13:15
EPA 8081B	03/27/13	05/06/13	03/27/13	10:48	4/3/2013 21:28
EPA 8082A	03/20/14	05/06/13	03/27/13	11:04	4/3/2013 21:28
EPA 8151A	03/27/13	05/06/13	03/27/13	03:30	3/27/2013 20:44
EPA 8260B	04/03/13		03/28/13	12:43	3/28/2013 20:05
EPA 8270D	03/27/13	05/05/13	03/26/13	08:38	3/29/2013 17:09
EPA 9014	04/03/13		03/29/13	09:10	3/31/2013 08:42
SM 4500S2 D-2000	03/27/13		03/25/13	11:30	3/25/2013 11:45

Client ID: 4501-AMW1S	Lab ID: C302336-06	Sampled: 03/21/13 15:35	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/17/13	03/25/13	09:58	3/27/2013 14:43
EPA 6020A	09/17/13	03/25/13	10:00	3/27/2013 12:01
EPA 7470A	04/18/13	03/25/13	10:03	3/26/2013 13:38
EPA 8260B	04/04/13	03/28/13	12:49	3/29/2013 09:01

Client ID: 4501-AMW1D	Lab ID: C302336-07	Sampled: 03/21/13 15:45	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/17/13	03/25/13	09:58	3/27/2013 14:49
EPA 6020A	09/17/13	03/25/13	10:00	3/27/2013 12:05
EPA 7470A	04/18/13	03/25/13	10:03	3/26/2013 13:40
EPA 8260B	04/04/13	03/28/13	12:49	3/29/2013 09:30

Client ID: 4501-AMW2S	Lab ID: C302336-08	Sampled: 03/21/13 15:55	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/17/13	03/25/13	09:58	3/27/2013 14:51
EPA 6020A	09/17/13	03/25/13	10:00	3/27/2013 12:09
EPA 7470A	04/18/13	03/25/13	10:03	3/26/2013 13:43
EPA 8260B	04/04/13	03/28/13	12:49	3/29/2013 09:59

Client ID: 4501-AMW2D	Lab ID: C302336-09	Sampled: 03/21/13 16:00	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/17/13	03/25/13	09:58	3/27/2013 14:54
EPA 6020A	09/17/13	03/25/13	10:00	3/27/2013 12:13
EPA 7470A	04/18/13	03/25/13	10:03	3/26/2013 13:45
EPA 8260B	04/04/13	03/28/13	12:49	3/29/2013 10:28

www.encolabs.com

Client ID: 4501-BR1	Lab ID: C302336-10	Sampled: 03/21/13 10:55	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/17/13		03/25/13	09:58	3/27/2013 14:56
EPA 6020A	09/17/13		03/25/13	10:00	3/27/2013 12:17
EPA 8260B	04/04/13		03/28/13	12:49	3/29/2013 10:58

Client ID: 4501-BR2	Lab ID: C302336-11	Sampled: 03/21/13 15:10	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/17/13		03/25/13	09:58	3/27/2013 14:59
EPA 6020A	09/17/13		03/25/13	10:00	3/27/2013 12:21
EPA 8260B	04/04/13		03/28/13	12:49	3/29/2013 11:27

Client ID: 4501-BR3	Lab ID: C302336-12	Sampled: 03/21/13 16:10	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/17/13		03/25/13	09:58	3/27/2013 15:01
EPA 6020A	09/17/13		03/25/13	10:00	3/27/2013 12:25
EPA 8260B	04/04/13		03/28/13	12:49	3/29/2013 11:57

Client ID: 4501-SW1	Lab ID: C302336-13	Sampled: 03/21/13 14:45	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/17/13		03/25/13	09:58	3/27/2013 15:03
EPA 6020A	09/17/13		03/25/13	10:00	3/27/2013 12:29
EPA 8260B	04/04/13		03/28/13	12:49	3/29/2013 12:26

Client ID: 4501-TSW2	Lab ID: C302336-14	Sampled: 03/21/13 11:55	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/17/13		03/25/13	09:58	3/27/2013 15:13
EPA 6020A	09/17/13		03/25/13	10:00	3/27/2013 12:33
EPA 8260B	04/04/13		03/28/13	12:49	3/29/2013 12:55

Client ID: 4501-Field Blank	Lab ID: C302336-15	Sampled: 03/21/13 16:20	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/17/13		03/25/13	09:58	3/27/2013 15:15
EPA 6020A	09/17/13		03/25/13	10:00	3/27/2013 12:37
EPA 7470A	04/18/13		03/25/13	10:03	3/26/2013 13:47
EPA 8081B	03/28/13	05/06/13	03/27/13	10:48	4/3/2013 21:41
EPA 8082A	03/21/14	05/06/13	03/27/13	11:04	4/3/2013 21:41
EPA 8151A	03/28/13	05/06/13	03/27/13	03:30	3/28/2013 14:28
EPA 8270D	03/28/13	05/05/13	03/26/13	08:38	3/29/2013 19:50
EPA 9014	04/04/13		03/29/13	09:10	3/31/2013 08:55
SM 4500S2 D-2000	03/28/13		03/25/13	11:30	3/25/2013 11:45

www.encolabs.com

Client ID: 4501-Field Blank	Lab ID: C302336-15RE1	Sampled: 03/21/13 16:20	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	04/04/13	03/28/13 12:49	4/1/2013 16:55

Client ID: 4501-Trip Blank	Lab ID: C302336-16	Sampled: 03/20/13 14:34	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	04/03/13	03/28/13 12:43	3/28/2013 22:03

Client ID: 4501-MW9	Lab ID: C302336-19	Sampled: 03/21/13 09:40	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	09/17/13	03/25/13 09:58	3/27/2013 15:18
EPA 6020A	09/17/13	03/25/13 10:00	3/27/2013 12:53
EPA 8260B	04/04/13	03/29/13 14:26	4/1/2013 17:24

www.encolabs.com

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4501-MW5 (Background) **Lab ID: C302336-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	51.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	2.48	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.32	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	9.21	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.117	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	5.60	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	21.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW6 **Lab ID: C302336-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	33.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Total	5.01	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Tin - Total	3.86	J	1	2.10	10.0	100	ug/L	EPA 6010C	
Vanadium - Total	2.36	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	12.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW6 **Lab ID: C302336-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	21	J	1	1.2	5.0	100	ug/L	EPA 8260B	

Client ID: 4501-MW7 **Lab ID: C302336-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.71	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.76	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	14		1	0.19	1.0	1	ug/L	EPA 8260B	
2,4-D	0.75	J	1	0.16	0.50	2	ug/L	EPA 8151A	
Barium - Total	518		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.5		1	0.15	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.258	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	3.30		1	0.360	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	10		1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	5.6		1	0.15	1.0	5	ug/L	EPA 8260B	
Copper - Total	1.84	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	3.46	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Silver - Total	7.00	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.413	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Tin - Total	3.79	J	1	2.10	10.0	100	ug/L	EPA 6010C	
Vinyl chloride	1.0		1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	6.76	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW8 (MS/MSD) **Lab ID: C302336-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	6.9		1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichlorobenzene	1.3	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	3.8		1	0.19	1.0	1	ug/L	EPA 8260B	
Antimony - Total	0.621	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	957		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	3.0		1	0.15	1.0	1	ug/L	EPA 8260B	

Client ID: 4501-MW8 (MS/MSD) **Lab ID: C302336-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Beryllium - Total	0.327	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	1.0	J	1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	13		1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	3.67	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.57	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Methylene chloride	11		1	0.23	1.0	1	ug/L	EPA 8260B	
Silver - Total	3.58	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Tetrachloroethene	11		1	0.17	1.0	1	ug/L	EPA 8260B	
Thallium - Total	0.659	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Tin - Total	6.88	J	1	2.10	10.0	100	ug/L	EPA 6010C	
Trichloroethene	3.9		1	0.15	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	2.47	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.77	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	6.3		1	0.45	3.0	5	ug/L	EPA 8260B	
Zinc - Total	60.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-AMW1S **Lab ID: C302336-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	342		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.420	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	1.20		1	0.360	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	1.2	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Cobalt - Total	5.62	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Silver - Total	3.31	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.487	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Zinc - Total	9.19	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-AMW1D **Lab ID: C302336-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.2	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.90	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	5.0		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	10.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.2		1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	5.2		1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.9	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Copper - Total	1.99	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vinyl chloride	0.50	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	6.32	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-AMW2S **Lab ID: C302336-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.6	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	2.2		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	8.94	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.2		1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	2.4	J	1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.8	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Silver - Total	2.17	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vinyl chloride	0.49	J	1	0.32	1.0	1	ug/L	EPA 8260B	

Client ID: 4501-AMW2D **Lab ID: C302336-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	3.04	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	1.74	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Zinc - Total	5.00	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-BR1 **Lab ID: C302336-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	41.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	1.77	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Silver - Total	1.94	J	1	1.90	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-BR2 **Lab ID: C302336-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	1.4		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	171		1	1.00	10.0	100	ug/L	EPA 6010C	
Chlorobenzene	0.46	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Cobalt - Total	3.49	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Silver - Total	2.72	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Zinc - Total	6.72	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-BR3 **Lab ID: C302336-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	194		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.227	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	2.03	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.60	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.04	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Zinc - Total	35.9		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-SW1 **Lab ID: C302336-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	42.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 4501-TSW2 **Lab ID: C302336-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	354		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	1.23		1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.398	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	2.15	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.12	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.68	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	2.75	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Zinc - Total	22.9		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-Field Blank **Lab ID: C302336-15**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	1.34	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Manganese - Total	7.96	J	1	1.10	10.0	50	ug/L	EPA 6010C	
Silver - Total	2.11	J	1	1.90	10.0	10	ug/L	EPA 6010C	

www.encolabs.com

Client ID:	4501-Field Blank			Lab ID:	C302336-15RE1				
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Tetrahydrofuran	21		1	0.80	1.0	NE	ug/L	EPA 8260B	

Client ID:	4501-MW9			Lab ID:	C302336-19				
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	192		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	1.68		1	0.100	1.00	1	ug/L	EPA 6010C	
Zinc - Total	12.0		1	3.80	10.0	10	ug/L	EPA 6010C	

www.encolabs.com

ANALYTICAL RESULTS

Description: 4501-MW5 (Background) **Lab Sample ID:** C302336-01 **Received:** 03/22/13 10:10
Matrix: Ground Water **Sampled:** 03/21/13 10:10 **Work Order:** C302336
Project: Henderson Co. LF **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/29/13 08:01	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/29/13 08:01	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/29/13 08:01	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 08:01	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/29/13 08:01	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 08:01	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 08:01	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 08:01	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/29/13 08:01	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/29/13 08:01	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/29/13 08:01	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/29/13 08:01	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/29/13 08:01	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/29/13 08:01	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 08:01	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	03/29/13 08:01	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/29/13 08:01	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	03/29/13 08:01	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/29/13 08:01	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/29/13 08:01	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/29/13 08:01	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/29/13 08:01	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/29/13 08:01	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/29/13 08:01	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/29/13 08:01	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/29/13 08:01	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 08:01	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/29/13 08:01	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 08:01	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/29/13 08:01	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/29/13 08:01	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/29/13 08:01	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 08:01	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 08:01	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/29/13 08:01	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/29/13 08:01	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 08:01	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/29/13 08:01	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 08:01	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/29/13 08:01	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 08:01	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/29/13 08:01	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	03/29/13 08:01	REF	

www.encolabs.com

Description: 4501-MW5 (Background) | **Lab Sample ID:** C302336-01 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 10:10 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/29/13 08:01	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 08:01	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/29/13 08:01	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/29/13 08:01	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/29/13 08:01	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/29/13 08:01	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 08:01	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/29/13 08:01	REF	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/29/13 08:01	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/29/13 08:01	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 08:01	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 08:01	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 08:01	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 08:01	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/29/13 08:01	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 08:01	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/29/13 08:01	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/29/13 08:01	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/29/13 08:01	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/29/13 08:01	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*3C28014*	*EPA 8260B*	*03/29/13 08:01*	*REF*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*3C28014*	*EPA 8260B*	*03/29/13 08:01*	*REF*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*67-127*	*3C28014*	*EPA 8260B*	*03/29/13 08:01*	*REF*	

www.encolabs.com

Description: 4501-MW5 (Background) | **Lab Sample ID:** C302336-01 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 10:10 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	03/29/13 18:29	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/29/13 18:29	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/29/13 18:29	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:29	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:29	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	03/29/13 18:29	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/29/13 18:29	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:29	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 18:29	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	03/29/13 18:29	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:29	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	03/29/13 18:29	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 18:29	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:29	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	03/29/13 18:29	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:29	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 18:29	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	03/29/13 18:29	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/29/13 18:29	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	03/29/13 18:29	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	03/29/13 18:29	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	03/29/13 18:29	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/29/13 18:29	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 18:29	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	03/29/13 18:29	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	03/29/13 18:29	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	03/29/13 18:29	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:29	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:29	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:29	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 18:29	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:29	DFM	

www.encolabs.com

Description: 4501-MW5 (Background) **Lab Sample ID:** C302336-01 **Received:** 03/22/13 10:10

Matrix: Ground Water **Sampled:** 03/21/13 10:10 **Work Order:** C302336

Project: Henderson Co. LF **Sampled By:** Daniel Childress

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/29/13 18:29	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	03/29/13 18:29	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:29	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:29	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/13 18:29	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:29	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 18:29	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/29/13 18:29	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:29	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 18:29	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	03/29/13 18:29	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:29	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/29/13 18:29	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/29/13 18:29	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 18:29	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 18:29	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:29	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:29	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 18:29	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/29/13 18:29	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/29/13 18:29	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	03/29/13 18:29	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	03/29/13 18:29	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/29/13 18:29	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:29	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	03/29/13 18:29	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:29	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 18:29	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 18:29	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/29/13 18:29	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	03/29/13 18:29	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	

www.encolabs.com

Description: 4501-MW5 (Background) **Lab Sample ID:** C302336-01 **Received:** 03/22/13 10:10

Matrix: Ground Water **Sampled:** 03/21/13 10:10 **Work Order:** C302336

Project: Henderson Co. LF **Sampled By:** Daniel Childress

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:29	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 18:29	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:29	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:29	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/29/13 18:29	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/29/13 18:29	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:29	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:29	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:29	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:29	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 18:29	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:29	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/29/13 18:29	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*75*	*1*	*100*	*75 %*	*10-179*	*3C26005*	*EPA 8270D*	*03/29/13 18:29*	*DFM*	
2-Fluorobiphenyl	*41*	*1*	*50.0*	*81 %*	*10-149*	*3C26005*	*EPA 8270D*	*03/29/13 18:29*	*DFM*	
2-Fluorophenol	*56*	*1*	*100*	*56 %*	*10-110*	*3C26005*	*EPA 8270D*	*03/29/13 18:29*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*81 %*	*10-149*	*3C26005*	*EPA 8270D*	*03/29/13 18:29*	*DFM*	
Phenol-d5	*44*	*1*	*100*	*44 %*	*10-88*	*3C26005*	*EPA 8270D*	*03/29/13 18:29*	*DFM*	
Terphenyl-d14	*41*	*1*	*50.0*	*81 %*	*10-188*	*3C26005*	*EPA 8270D*	*03/29/13 18:29*	*DFM*	

www.encolabs.com

Description: 4501-MW5 (Background) | **Lab Sample ID:** C302336-01 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 10:10 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	04/03/13 20:48	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	04/03/13 20:48	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	04/03/13 20:48	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	04/03/13 20:48	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	04/03/13 20:48	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	04/03/13 20:48	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	04/03/13 20:48	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	04/03/13 20:48	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	04/03/13 20:48	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	04/03/13 20:48	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	04/03/13 20:48	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	04/03/13 20:48	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	04/03/13 20:48	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	04/03/13 20:48	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	04/03/13 20:48	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	04/03/13 20:48	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	04/03/13 20:48	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	04/03/13 20:48	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	04/03/13 20:48	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	04/03/13 20:48	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	04/03/13 20:48	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*111 %*	*44-134*	*3C27020*	*EPA 8081B*	*04/03/13 20:48*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*107 %*	*37-149*	*3C27020*	*EPA 8081B*	*04/03/13 20:48*	*MSZ*	

www.encolabs.com

Description: 4501-MW5 (Background) | **Lab Sample ID:** C302336-01 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 10:10 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	04/03/13 20:48	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	04/03/13 20:48	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	04/03/13 20:48	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	04/03/13 20:48	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	04/03/13 20:48	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50		EPA 8082A	04/03/13 20:48	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*111 %*	*45-151*	*3C27023*	*EPA 8082A*	*04/03/13 20:48*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*107 %*	*42-159*	*3C27023*	*EPA 8082A*	*04/03/13 20:48*	*MSZ*	

www.encolabs.com

Description:	4501-MW5 (Background)	**Lab Sample ID:**	C302336-01	**Received:**	03/22/13 10:10
Matrix:	Ground Water	**Sampled:**	03/21/13 10:10	**Work Order:**	C302336
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/26/13 13:31	T1D	

www.encolabs.com

Description: 4501-MW5 (Background) **Lab Sample ID:** C302336-01 **Received:** 03/22/13 10:10

Matrix: Ground Water **Sampled:** 03/21/13 10:10 **Work Order:** C302336

Project: Henderson Co. LF **Sampled By:** Daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 11:37	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 14:29	JDH	
Barium [7440-39-3] ^	**51.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 14:29	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 14:29	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 14:29	JDH	
Chromium [7440-47-3] ^	**2.48**	J	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 14:29	JDH	
Cobalt [7440-48-4] ^	**1.32**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 14:29	JDH	
Copper [7440-50-8] ^	**9.21**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 14:29	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:29	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 14:29	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 14:29	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:29	JDH	
Thallium [7440-28-0] ^	**0.117**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 11:37	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	03/27/13 14:29	JDH	
Vanadium [7440-62-2] ^	**5.60**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 14:29	JDH	
Zinc [7440-66-6] ^	**21.3**		ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 14:29	JDH	

www.encolabs.com

Description: 4501-MW5 (Background) | **Lab Sample ID:** C302336-01 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 10:10 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	03/31/13 08:49	JCS	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	03/25/13 11:45	JOC	

www.encolabs.com

Description:	4501-MW5 (Background)	**Lab Sample ID:**	C302336-01	**Received:**	03/22/13 10:10
Matrix:	Ground Water	**Sampled:**	03/21/13 10:10	**Work Order:**	C302336
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	03/28/13 13:11	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.1*	*1*	*2.00*	*106 %*	*68-139*	*3C27005*	*EPA 8151A*	*03/28/13 13:11*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-MW6 | **Lab Sample ID:** C302336-02 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 11:30 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	04/01/13 16:25	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	04/01/13 16:25	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	04/01/13 16:25	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	04/01/13 16:25	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/01/13 16:25	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	04/01/13 16:25	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/01/13 16:25	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	04/01/13 16:25	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/01/13 16:25	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	04/01/13 16:25	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	04/01/13 16:25	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	04/01/13 16:25	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	04/01/13 16:25	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/01/13 16:25	JKG	
Acetone [67-64-1] ^	**21**	J	ug/L	1	1.2	5.0	100	EPA 8260B	04/01/13 16:25	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	04/01/13 16:25	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	04/01/13 16:25	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	04/01/13 16:25	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	04/01/13 16:25	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	04/01/13 16:25	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	04/01/13 16:25	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/01/13 16:25	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	04/01/13 16:25	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	04/01/13 16:25	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	04/01/13 16:25	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	04/01/13 16:25	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/01/13 16:25	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	04/01/13 16:25	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	04/01/13 16:25	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/01/13 16:25	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	04/01/13 16:25	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	04/01/13 16:25	JKG	

www.encolabs.com

Description: 4501-MW6 | **Lab Sample ID:** C302336-02 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 11:30 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	04/01/13 16:25	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	04/01/13 16:25	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	04/01/13 16:25	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	04/01/13 16:25	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	04/01/13 16:25	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	04/01/13 16:25	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	04/01/13 16:25	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	04/01/13 16:25	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	04/01/13 16:25	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	04/01/13 16:25	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*103 %*	*51-122*	*3C29025*	*EPA 8260B*	*04/01/13 16:25*	*JKG*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*68-117*	*3C29025*	*EPA 8260B*	*04/01/13 16:25*	*JKG*	
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*67-127*	*3C29025*	*EPA 8260B*	*04/01/13 16:25*	*JKG*	

www.encolabs.com

Description: 4501-MW6 | **Lab Sample ID:** C302336-02 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 11:30 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	03/29/13 18:56	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/29/13 18:56	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/29/13 18:56	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:56	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:56	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	03/29/13 18:56	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/29/13 18:56	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:56	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 18:56	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	03/29/13 18:56	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:56	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	03/29/13 18:56	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 18:56	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:56	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	03/29/13 18:56	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:56	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 18:56	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	03/29/13 18:56	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/29/13 18:56	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	03/29/13 18:56	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	03/29/13 18:56	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	03/29/13 18:56	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/29/13 18:56	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 18:56	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	03/29/13 18:56	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	03/29/13 18:56	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	03/29/13 18:56	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:56	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:56	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:56	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 18:56	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:56	DFM	

www.encolabs.com

Description: 4501-MW6 | **Lab Sample ID:** C302336-02 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 11:30 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/29/13 18:56	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	03/29/13 18:56	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:56	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:56	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/13 18:56	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:56	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 18:56	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/29/13 18:56	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:56	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 18:56	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	03/29/13 18:56	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:56	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/29/13 18:56	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/29/13 18:56	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 18:56	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 18:56	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:56	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:56	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 18:56	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/29/13 18:56	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/29/13 18:56	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	03/29/13 18:56	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	03/29/13 18:56	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/29/13 18:56	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:56	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	03/29/13 18:56	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:56	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 18:56	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 18:56	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/29/13 18:56	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	03/29/13 18:56	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	

www.encolabs.com

Description: 4501-MW6 | **Lab Sample ID:** C302336-02 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 11:30 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 18:56	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 18:56	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:56	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 18:56	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/29/13 18:56	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/29/13 18:56	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:56	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:56	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 18:56	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 18:56	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 18:56	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 18:56	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/29/13 18:56	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*74*	*1*	*100*	*74 %*	*10-179*	*3C26005*	*EPA 8270D*	*03/29/13 18:56*	*DFM*	
2-Fluorobiphenyl	*37*	*1*	*50.0*	*73 %*	*10-149*	*3C26005*	*EPA 8270D*	*03/29/13 18:56*	*DFM*	
2-Fluorophenol	*51*	*1*	*100*	*51 %*	*10-110*	*3C26005*	*EPA 8270D*	*03/29/13 18:56*	*DFM*	
Nitrobenzene-d5	*36*	*1*	*50.0*	*72 %*	*10-149*	*3C26005*	*EPA 8270D*	*03/29/13 18:56*	*DFM*	
Phenol-d5	*42*	*1*	*100*	*42 %*	*10-88*	*3C26005*	*EPA 8270D*	*03/29/13 18:56*	*DFM*	
Terphenyl-d14	*36*	*1*	*50.0*	*72 %*	*10-188*	*3C26005*	*EPA 8270D*	*03/29/13 18:56*	*DFM*	

www.encolabs.com

Description: 4501-MW6 | **Lab Sample ID:** C302336-02 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 11:30 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	04/03/13 21:01	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	04/03/13 21:01	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	04/03/13 21:01	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	04/03/13 21:01	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	04/03/13 21:01	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	04/03/13 21:01	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	04/03/13 21:01	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	04/03/13 21:01	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	04/03/13 21:01	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	04/03/13 21:01	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	04/03/13 21:01	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	04/03/13 21:01	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	04/03/13 21:01	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	04/03/13 21:01	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	04/03/13 21:01	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	04/03/13 21:01	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	04/03/13 21:01	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	04/03/13 21:01	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	04/03/13 21:01	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	04/03/13 21:01	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	04/03/13 21:01	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.92*	*1*	*1.00*	*92 %*	*44-134*	*3C27020*	*EPA 8081B*	*04/03/13 21:01*	*MSZ*	
Decachlorobiphenyl	*1.5*	*1*	*1.00*	*146 %*	*37-149*	*3C27020*	*EPA 8081B*	*04/03/13 21:01*	*MSZ*	

www.encolabs.com

Description: 4501-MW6
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-02
Sampled: 03/21/13 11:30
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	04/03/13 21:01	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	04/03/13 21:01	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	04/03/13 21:01	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	04/03/13 21:01	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	04/03/13 21:01	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50		EPA 8082A	04/03/13 21:01	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.92*	*1*	*1.00*	*92 %*	*45-151*	*3C27023*	*EPA 8082A*	*04/03/13 21:01*	*MSZ*	
Decachlorobiphenyl	*1.5*	*1*	*1.00*	*146 %*	*42-159*	*3C27023*	*EPA 8082A*	*04/03/13 21:01*	*MSZ*	

www.encolabs.com

Description: 4501-MW6
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-02
Sampled: 03/21/13 11:30
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/26/13 13:34	T1D	

www.encolabs.com

Description: 4501-MW6 | **Lab Sample ID:** C302336-02 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 11:30 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 11:41	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 14:38	JDH	
Barium [7440-39-3] ^	**33.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 14:38	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 14:38	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 14:38	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 14:38	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 14:38	JDH	
Copper [7440-50-8] ^	**5.01**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 14:38	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:38	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 14:38	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 14:38	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:38	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 11:41	VLO	
Tin [7440-31-5] ^	**3.86**	J	ug/L	1	2.10	10.0	100	EPA 6010C	03/27/13 14:38	JDH	
Vanadium [7440-62-2] ^	**2.36**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 14:38	JDH	
Zinc [7440-66-6] ^	**12.5**		ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 14:38	JDH	

www.encolabs.com

Description: 4501-MW6
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-02
Sampled: 03/21/13 11:30
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	03/31/13 08:51	JCS	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	03/25/13 11:45	JOC	

www.encolabs.com

Description: 4501-MW6
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-02
Sampled: 03/21/13 11:30
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	03/28/13 13:37	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.3*	*1*	*2.00*	*114 %*	*68-139*	*3C27005*	*EPA 8151A*	*03/28/13 13:37*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-MW7 | **Lab Sample ID:** C302336-03 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/20/13 16:08 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/28/13 21:34	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/28/13 21:34	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/28/13 21:34	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/13 21:34	REF	
1,1-Dichloroethane [75-34-3] ^	**0.71**	J	ug/L	1	0.13	1.0	5	EPA 8260B	03/28/13 21:34	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/13 21:34	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/28/13 21:34	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/28/13 21:34	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/28/13 21:34	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/28/13 21:34	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/28/13 21:34	REF	
1,2-Dichlorobenzene [95-50-1] ^	**0.76**	J	ug/L	1	0.19	1.0	5	EPA 8260B	03/28/13 21:34	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/28/13 21:34	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/28/13 21:34	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/28/13 21:34	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	03/28/13 21:34	REF	
1,4-Dichlorobenzene [106-46-7] ^	**14**		ug/L	1	0.19	1.0	1	EPA 8260B	03/28/13 21:34	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	03/28/13 21:34	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/28/13 21:34	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/28/13 21:34	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/28/13 21:34	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/28/13 21:34	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/28/13 21:34	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/28/13 21:34	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/28/13 21:34	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/28/13 21:34	REF	
Benzene [71-43-2] ^	**1.5**		ug/L	1	0.15	1.0	1	EPA 8260B	03/28/13 21:34	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/28/13 21:34	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/13 21:34	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/28/13 21:34	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/28/13 21:34	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/28/13 21:34	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/13 21:34	REF	
Chlorobenzene [108-90-7] ^	**10**		ug/L	1	0.17	1.0	3	EPA 8260B	03/28/13 21:34	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/28/13 21:34	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/28/13 21:34	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/13 21:34	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/28/13 21:34	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**5.6**		ug/L	1	0.15	1.0	5	EPA 8260B	03/28/13 21:34	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/28/13 21:34	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/28/13 21:34	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/28/13 21:34	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	03/28/13 21:34	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/28/13 21:34	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/13 21:34	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/28/13 21:34	REF	

www.encolabs.com

Description: 4501-MW7 | **Lab Sample ID:** C302336-03 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/20/13 16:08 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/28/13 21:34	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/28/13 21:34	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/28/13 21:34	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/28/13 21:34	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/28/13 21:34	REF	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/28/13 21:34	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/28/13 21:34	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/13 21:34	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/13 21:34	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/13 21:34	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/13 21:34	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/28/13 21:34	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/13 21:34	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/28/13 21:34	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/28/13 21:34	REF	
Vinyl chloride [75-01-4] ^	**1.0**		ug/L	1	0.32	1.0	1	EPA 8260B	03/28/13 21:34	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/28/13 21:34	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*51-122*	*3C28013*	*EPA 8260B*	*03/28/13 21:34*	*REF*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*3C28013*	*EPA 8260B*	*03/28/13 21:34*	*REF*	
Toluene-d8	*44*	*1*	*50.0*	*89 %*	*67-127*	*3C28013*	*EPA 8260B*	*03/28/13 21:34*	*REF*	

www.encolabs.com

Description: 4501-MW7 | **Lab Sample ID:** C302336-03 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/20/13 16:08 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	03/29/13 19:23	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/29/13 19:23	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/29/13 19:23	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:23	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:23	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	03/29/13 19:23	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/29/13 19:23	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:23	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 19:23	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	03/29/13 19:23	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:23	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	03/29/13 19:23	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 19:23	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:23	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	03/29/13 19:23	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:23	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 19:23	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	03/29/13 19:23	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/29/13 19:23	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	03/29/13 19:23	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	03/29/13 19:23	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	03/29/13 19:23	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/29/13 19:23	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 19:23	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	03/29/13 19:23	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	03/29/13 19:23	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	03/29/13 19:23	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:23	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:23	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:23	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 19:23	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:23	DFM	

www.encolabs.com

Description: 4501-MW7 | **Lab Sample ID:** C302336-03 | **Received:** 03/22/13 10:10
Matrix: Ground Water | **Sampled:** 03/20/13 16:08 | **Work Order:** C302336
Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/29/13 19:23	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	03/29/13 19:23	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:23	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:23	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/13 19:23	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:23	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 19:23	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/29/13 19:23	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:23	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 19:23	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	03/29/13 19:23	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:23	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/29/13 19:23	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/29/13 19:23	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 19:23	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 19:23	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:23	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:23	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 19:23	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/29/13 19:23	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/29/13 19:23	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	03/29/13 19:23	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	03/29/13 19:23	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/29/13 19:23	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:23	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	03/29/13 19:23	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:23	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 19:23	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 19:23	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/29/13 19:23	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	03/29/13 19:23	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	

www.encolabs.com

Description: 4501-MW7 | **Lab Sample ID:** C302336-03 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/20/13 16:08 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:23	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 19:23	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:23	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:23	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/29/13 19:23	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/29/13 19:23	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:23	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:23	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:23	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:23	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 19:23	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:23	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/29/13 19:23	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*81*	*1*	*100*	*81 %*	*10-179*	*3C26005*	*EPA 8270D*	*03/29/13 19:23*	*DFM*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*77 %*	*10-149*	*3C26005*	*EPA 8270D*	*03/29/13 19:23*	*DFM*	
2-Fluorophenol	*52*	*1*	*100*	*52 %*	*10-110*	*3C26005*	*EPA 8270D*	*03/29/13 19:23*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*77 %*	*10-149*	*3C26005*	*EPA 8270D*	*03/29/13 19:23*	*DFM*	
Phenol-d5	*42*	*1*	*100*	*42 %*	*10-88*	*3C26005*	*EPA 8270D*	*03/29/13 19:23*	*DFM*	
Terphenyl-d14	*39*	*1*	*50.0*	*79 %*	*10-188*	*3C26005*	*EPA 8270D*	*03/29/13 19:23*	*DFM*	

www.encolabs.com

Description: 4501-MW7 | **Lab Sample ID:** C302336-03 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/20/13 16:08 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	04/03/13 21:15	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	04/03/13 21:15	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	04/03/13 21:15	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	04/03/13 21:15	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	04/03/13 21:15	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	04/03/13 21:15	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	04/03/13 21:15	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	04/03/13 21:15	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	04/03/13 21:15	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	04/03/13 21:15	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	04/03/13 21:15	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	04/03/13 21:15	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	04/03/13 21:15	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	04/03/13 21:15	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	04/03/13 21:15	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	04/03/13 21:15	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	04/03/13 21:15	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	04/03/13 21:15	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	04/03/13 21:15	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	04/03/13 21:15	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	04/03/13 21:15	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*113 %*	*44-134*	*3C27020*	*EPA 8081B*	*04/03/13 21:15*	*MSZ*	
Decachlorobiphenyl	*1.3*	*1*	*1.00*	*128 %*	*37-149*	*3C27020*	*EPA 8081B*	*04/03/13 21:15*	*MSZ*	

www.encolabs.com

Description: 4501-MW7
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-03
Sampled: 03/20/13 16:08
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	04/03/13 21:15	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	04/03/13 21:15	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	04/03/13 21:15	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	04/03/13 21:15	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	04/03/13 21:15	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50		EPA 8082A	04/03/13 21:15	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*113 %*	*45-151*	*3C27023*	*EPA 8082A*	*04/03/13 21:15*	*MSZ*	
Decachlorobiphenyl	*1.3*	*1*	*1.00*	*128 %*	*42-159*	*3C27023*	*EPA 8082A*	*04/03/13 21:15*	*MSZ*	

www.encolabs.com

Description: 4501-MW7
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-03
Sampled: 03/20/13 16:08
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/26/13 13:36	T1D	

www.encolabs.com

Description: 4501-MW7 | **Lab Sample ID:** C302336-03 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/20/13 16:08 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 11:45	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 14:46	JDH	
Barium [7440-39-3] ^	**518**		ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 14:46	JDH	
Beryllium [7440-41-7] ^	**0.258**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 14:46	JDH	
Cadmium [7440-43-9] ^	**3.30**		ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 14:46	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 14:46	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 14:46	JDH	
Copper [7440-50-8] ^	**1.84**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 14:46	JDH	
Lead [7439-92-1] ^	**3.46**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:46	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 14:46	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 14:46	JDH	
Silver [7440-22-4] ^	**7.00**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:46	JDH	
Thallium [7440-28-0] ^	**0.413**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 11:45	VLO	
Tin [7440-31-5] ^	**3.79**	J	ug/L	1	2.10	10.0	100	EPA 6010C	03/27/13 14:46	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 14:46	JDH	
Zinc [7440-66-6] ^	**6.76**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 14:46	JDH	

www.encolabs.com

Description: 4501-MW7
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-03
Sampled: 03/20/13 16:08
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	03/31/13 08:53	JCS	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	03/25/13 11:45	JOC	

www.encolabs.com

Description:	4501-MW7	**Lab Sample ID:**	C302336-03	**Received:**	03/22/13 10:10
Matrix:	Ground Water	**Sampled:**	03/20/13 16:08	**Work Order:**	C302336
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	**0.75**	J	ug/L	1	0.16	0.50	2	EPA 8151A	03/28/13 14:03	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.5*	*1*	*2.00*	*75 %*	*68-139*	*3C27005*	*EPA 8151A*	*03/28/13 14:03*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-MW8 (MS/MSD) | **Lab Sample ID:** C302336-04 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/20/13 14:34 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/28/13 20:05	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/28/13 20:05	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/28/13 20:05	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/13 20:05	REF	
1,1-Dichloroethane [75-34-3] ^	**6.9**		ug/L	1	0.13	1.0	5	EPA 8260B	03/28/13 20:05	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/13 20:05	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/28/13 20:05	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/28/13 20:05	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/28/13 20:05	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/28/13 20:05	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/28/13 20:05	REF	
1,2-Dichlorobenzene [95-50-1] ^	**1.3**	J	ug/L	1	0.19	1.0	5	EPA 8260B	03/28/13 20:05	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/28/13 20:05	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/28/13 20:05	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/28/13 20:05	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	03/28/13 20:05	REF	
1,4-Dichlorobenzene [106-46-7] ^	**3.8**		ug/L	1	0.19	1.0	1	EPA 8260B	03/28/13 20:05	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	03/28/13 20:05	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/28/13 20:05	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/28/13 20:05	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/28/13 20:05	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/28/13 20:05	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/28/13 20:05	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/28/13 20:05	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/28/13 20:05	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/28/13 20:05	REF	
Benzene [71-43-2] ^	**3.0**		ug/L	1	0.15	1.0	1	EPA 8260B	03/28/13 20:05	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/28/13 20:05	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/13 20:05	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/28/13 20:05	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/28/13 20:05	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/28/13 20:05	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/13 20:05	REF	
Chlorobenzene [108-90-7] ^	**1.0**	J	ug/L	1	0.17	1.0	3	EPA 8260B	03/28/13 20:05	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/28/13 20:05	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/28/13 20:05	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/13 20:05	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/28/13 20:05	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**13**		ug/L	1	0.15	1.0	5	EPA 8260B	03/28/13 20:05	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/28/13 20:05	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/28/13 20:05	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/28/13 20:05	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	03/28/13 20:05	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/28/13 20:05	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/13 20:05	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/28/13 20:05	REF	

www.encolabs.com

Description: 4501-MW8 (MS/MSD) | **Lab Sample ID:** C302336-04 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/20/13 14:34 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/28/13 20:05	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/28/13 20:05	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/28/13 20:05	REF	
Methylene chloride [75-09-2] ^	**11**		ug/L	1	0.23	1.0	1	EPA 8260B	03/28/13 20:05	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/28/13 20:05	REF	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/28/13 20:05	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/28/13 20:05	REF	
Tetrachloroethene [127-18-4] ^	**11**		ug/L	1	0.17	1.0	1	EPA 8260B	03/28/13 20:05	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/13 20:05	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/13 20:05	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/13 20:05	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/28/13 20:05	REF	
Trichloroethene [79-01-6] ^	**3.9**		ug/L	1	0.15	1.0	1	EPA 8260B	03/28/13 20:05	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/28/13 20:05	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/28/13 20:05	REF	
Vinyl chloride [75-01-4] ^	**0.77**	J	ug/L	1	0.32	1.0	1	EPA 8260B	03/28/13 20:05	REF	
Xylenes (Total) [1330-20-7] ^	**6.3**		ug/L	1	0.45	3.0	5	EPA 8260B	03/28/13 20:05	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*95 %*	*51-122*	*3C28013*	*EPA 8260B*	*03/28/13 20:05*	*REF*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*3C28013*	*EPA 8260B*	*03/28/13 20:05*	*REF*	
Toluene-d8	*44*	*1*	*50.0*	*88 %*	*67-127*	*3C28013*	*EPA 8260B*	*03/28/13 20:05*	*REF*	

www.encolabs.com

Description: 4501-MW8 (MS/MSD) **Lab Sample ID:** C302336-04 **Received:** 03/22/13 10:10
Matrix: Ground Water **Sampled:** 03/20/13 14:34 **Work Order:** C302336
Project: Henderson Co. LF **Sampled By:** Daniel Childress

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	03/29/13 17:09	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/29/13 17:09	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/29/13 17:09	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 17:09	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 17:09	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	03/29/13 17:09	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/29/13 17:09	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 17:09	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 17:09	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	03/29/13 17:09	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 17:09	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	03/29/13 17:09	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 17:09	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 17:09	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	03/29/13 17:09	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 17:09	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 17:09	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	03/29/13 17:09	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/29/13 17:09	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	03/29/13 17:09	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	03/29/13 17:09	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	03/29/13 17:09	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/29/13 17:09	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 17:09	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	03/29/13 17:09	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	03/29/13 17:09	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	03/29/13 17:09	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 17:09	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 17:09	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 17:09	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 17:09	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 17:09	DFM	

www.encolabs.com

Description: 4501-MW8 (MS/MSD) **Lab Sample ID:** C302336-04 **Received:** 03/22/13 10:10
Matrix: Ground Water **Sampled:** 03/20/13 14:34 **Work Order:** C302336
Project: Henderson Co. LF **Sampled By:** Daniel Childress

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/29/13 17:09	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	03/29/13 17:09	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 17:09	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 17:09	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/13 17:09	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 17:09	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 17:09	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/29/13 17:09	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 17:09	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 17:09	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	03/29/13 17:09	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 17:09	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/29/13 17:09	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/29/13 17:09	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 17:09	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 17:09	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 17:09	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 17:09	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 17:09	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/29/13 17:09	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/29/13 17:09	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	03/29/13 17:09	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	03/29/13 17:09	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/29/13 17:09	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 17:09	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	03/29/13 17:09	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 17:09	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 17:09	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 17:09	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/29/13 17:09	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	03/29/13 17:09	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	

www.encolabs.com

Description: 4501-MW8 (MS/MSD) **Lab Sample ID:** C302336-04 **Received:** 03/22/13 10:10

Matrix: Ground Water **Sampled:** 03/20/13 14:34 **Work Order:** C302336

Project: Henderson Co. LF **Sampled By:** Daniel Childress

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 17:09	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 17:09	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 17:09	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 17:09	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/29/13 17:09	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/29/13 17:09	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 17:09	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 17:09	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 17:09	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 17:09	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 17:09	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 17:09	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/29/13 17:09	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*94*	*1*	*100*	*94 %*	*10-179*	*3C26005*	*EPA 8270D*	*03/29/13 17:09*	*DFM*	
2-Fluorobiphenyl	*39*	*1*	*50.0*	*78 %*	*10-149*	*3C26005*	*EPA 8270D*	*03/29/13 17:09*	*DFM*	
2-Fluorophenol	*55*	*1*	*100*	*55 %*	*10-110*	*3C26005*	*EPA 8270D*	*03/29/13 17:09*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*79 %*	*10-149*	*3C26005*	*EPA 8270D*	*03/29/13 17:09*	*DFM*	
Phenol-d5	*47*	*1*	*100*	*47 %*	*10-88*	*3C26005*	*EPA 8270D*	*03/29/13 17:09*	*DFM*	
Terphenyl-d14	*40*	*1*	*50.0*	*81 %*	*10-188*	*3C26005*	*EPA 8270D*	*03/29/13 17:09*	*DFM*	

www.encolabs.com

Description: 4501-MW8 (MS/MSD) **Lab Sample ID:** C302336-04 **Received:** 03/22/13 10:10

Matrix: Ground Water **Sampled:** 03/20/13 14:34 **Work Order:** C302336

Project: Henderson Co. LF **Sampled By:** Daniel Childress

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	04/03/13 21:28	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	04/03/13 21:28	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	04/03/13 21:28	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	04/03/13 21:28	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	04/03/13 21:28	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	04/03/13 21:28	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	04/03/13 21:28	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	04/03/13 21:28	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	04/03/13 21:28	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	04/03/13 21:28	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	04/03/13 21:28	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	04/03/13 21:28	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	04/03/13 21:28	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	04/03/13 21:28	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	04/03/13 21:28	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	04/03/13 21:28	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	04/03/13 21:28	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	04/03/13 21:28	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	04/03/13 21:28	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	04/03/13 21:28	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	04/03/13 21:28	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.2*	*1*	*1.00*	*115 %*	*44-134*	*3C27020*	*EPA 8081B*	*04/03/13 21:28*	*MSZ*	
Decachlorobiphenyl	*0.94*	*1*	*1.00*	*94 %*	*37-149*	*3C27020*	*EPA 8081B*	*04/03/13 21:28*	*MSZ*	

www.encolabs.com

Description: 4501-MW8 (MS/MSD) | **Lab Sample ID:** C302336-04 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/20/13 14:34 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	04/03/13 21:28	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	04/03/13 21:28	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	04/03/13 21:28	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	04/03/13 21:28	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	04/03/13 21:28	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50		EPA 8082A	04/03/13 21:28	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.2*	*1*	*1.00*	*115 %*	*45-151*	*3C27023*	*EPA 8082A*	*04/03/13 21:28*	*MSZ*	
Decachlorobiphenyl	*0.94*	*1*	*1.00*	*94 %*	*42-159*	*3C27023*	*EPA 8082A*	*04/03/13 21:28*	*MSZ*	

www.encolabs.com

Description: 4501-MW8 (MS/MSD)
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-04
Sampled: 03/20/13 14:34
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/26/13 13:15	T1D	

www.encolabs.com

Description: 4501-MW8 (MS/MSD) **Lab Sample ID:** C302336-04 **Received:** 03/22/13 10:10

Matrix: Ground Water **Sampled:** 03/20/13 14:34 **Work Order:** C302336

Project: Henderson Co. LF **Sampled By:** Daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.621**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 11:17	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 14:17	JDH	
Barium [7440-39-3] ^	**957**		ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 14:17	JDH	
Beryllium [7440-41-7] ^	**0.327**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 14:17	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 14:17	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 14:17	JDH	
Cobalt [7440-48-4] ^	**3.67**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 14:17	JDH	
Copper [7440-50-8] ^	**2.57**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 14:17	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:17	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 14:17	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 14:17	JDH	
Silver [7440-22-4] ^	**3.58**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:17	JDH	
Thallium [7440-28-0] ^	**0.659**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 11:17	VLO	
Tin [7440-31-5] ^	**6.88**	J	ug/L	1	2.10	10.0	100	EPA 6010C	03/27/13 14:17	JDH	
Vanadium [7440-62-2] ^	**2.47**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 14:17	JDH	
Zinc [7440-66-6] ^	**60.1**		ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 14:17	JDH	

www.encolabs.com

Description: 4501-MW8 (MS/MSD)
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-04
Sampled: 03/20/13 14:34
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	03/31/13 08:42	JCS	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	03/25/13 11:45	JOC	

www.encolabs.com

Description:	4501-MW8 (MS/MSD)	**Lab Sample ID:**	C302336-04	**Received:**	03/22/13 10:10
Matrix:	Ground Water	**Sampled:**	03/20/13 14:34	**Work Order:**	C302336
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	03/27/13 20:44	RGG	QM-07

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.1*	*1*	*2.00*	*106 %*	*68-139*	*3C27005*	*EPA 8151A*	*03/27/13 20:44*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-AMW1S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-06
Sampled: 03/21/13 15:35
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/29/13 09:01	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/29/13 09:01	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/29/13 09:01	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 09:01	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/29/13 09:01	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 09:01	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 09:01	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/29/13 09:01	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/29/13 09:01	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/29/13 09:01	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/29/13 09:01	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/29/13 09:01	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/29/13 09:01	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/29/13 09:01	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/29/13 09:01	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/29/13 09:01	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/29/13 09:01	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/29/13 09:01	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 09:01	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/29/13 09:01	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 09:01	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/29/13 09:01	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/29/13 09:01	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/29/13 09:01	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 09:01	REF	
Chlorobenzene [108-90-7] ^	**1.2**	J	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 09:01	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/29/13 09:01	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/29/13 09:01	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 09:01	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 09:01	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/29/13 09:01	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 09:01	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/29/13 09:01	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 09:01	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/29/13 09:01	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 09:01	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/29/13 09:01	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 09:01	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 09:01	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 09:01	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 09:01	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/29/13 09:01	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 09:01	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/29/13 09:01	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/29/13 09:01	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/29/13 09:01	REF	

www.encolabs.com

Description: 4501-AMW1S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-06
Sampled: 03/21/13 15:35
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/29/13 09:01	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*95 %*	*51-122*	*3C28014*	*EPA 8260B*	*03/29/13 09:01*	*REF*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*3C28014*	*EPA 8260B*	*03/29/13 09:01*	*REF*	
Toluene-d8	*44*	*1*	*50.0*	*88 %*	*67-127*	*3C28014*	*EPA 8260B*	*03/29/13 09:01*	*REF*	

www.encolabs.com

Description: 4501-AMW1S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-06
Sampled: 03/21/13 15:35
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/26/13 13:38	T1D	

www.encolabs.com

Description: 4501-AMW1S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-06
Sampled: 03/21/13 15:35
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 12:01	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 14:43	JDH	
Barium [7440-39-3] ^	**342**		ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 14:43	JDH	
Beryllium [7440-41-7] ^	**0.420**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 14:43	JDH	
Cadmium [7440-43-9] ^	**1.20**		ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 14:43	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 14:43	JDH	
Cobalt [7440-48-4] ^	**5.62**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 14:43	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 14:43	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:43	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 14:43	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 14:43	JDH	
Silver [7440-22-4] ^	**3.31**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:43	JDH	
Thallium [7440-28-0] ^	**0.487**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 12:01	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 14:43	JDH	
Zinc [7440-66-6] ^	**9.19**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 14:43	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-AMW1D
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-07
Sampled: 03/21/13 15:45
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/29/13 09:30	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/29/13 09:30	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/29/13 09:30	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 09:30	REF	
1,1-Dichloroethane [75-34-3] ^	**1.2**	J	ug/L	1	0.13	1.0	5	EPA 8260B	03/29/13 09:30	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 09:30	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 09:30	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/29/13 09:30	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/29/13 09:30	REF	
1,2-Dichlorobenzene [95-50-1] ^	**0.90**	J	ug/L	1	0.19	1.0	5	EPA 8260B	03/29/13 09:30	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/29/13 09:30	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/29/13 09:30	REF	
1,4-Dichlorobenzene [106-46-7] ^	**5.0**		ug/L	1	0.19	1.0	1	EPA 8260B	03/29/13 09:30	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/29/13 09:30	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/29/13 09:30	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/29/13 09:30	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/29/13 09:30	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/29/13 09:30	REF	
Benzene [71-43-2] ^	**1.2**		ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 09:30	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/29/13 09:30	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 09:30	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/29/13 09:30	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/29/13 09:30	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/29/13 09:30	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 09:30	REF	
Chlorobenzene [108-90-7] ^	**5.2**		ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 09:30	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/29/13 09:30	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/29/13 09:30	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 09:30	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**1.9**	J	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 09:30	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/29/13 09:30	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 09:30	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/29/13 09:30	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 09:30	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/29/13 09:30	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 09:30	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/29/13 09:30	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 09:30	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 09:30	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 09:30	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 09:30	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/29/13 09:30	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 09:30	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/29/13 09:30	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/29/13 09:30	REF	
Vinyl chloride [75-01-4] ^	**0.50**	J	ug/L	1	0.32	1.0	1	EPA 8260B	03/29/13 09:30	REF	

www.encolabs.com

Description: 4501-AMW1D
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-07
Sampled: 03/21/13 15:45
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/29/13 09:30	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*3C28014*	*EPA 8260B*	*03/29/13 09:30*	*REF*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*3C28014*	*EPA 8260B*	*03/29/13 09:30*	*REF*	
Toluene-d8	*44*	*1*	*50.0*	*89 %*	*67-127*	*3C28014*	*EPA 8260B*	*03/29/13 09:30*	*REF*	

www.encolabs.com

Description: 4501-AMW1D
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-07
Sampled: 03/21/13 15:45
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/26/13 13:40	T1D	

www.encolabs.com

Description: 4501-AMW1D
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-07
Sampled: 03/21/13 15:45
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 12:05	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 14:49	JDH	
Barium [7440-39-3] ^	**10.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 14:49	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 14:49	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 14:49	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 14:49	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 14:49	JDH	
Copper [7440-50-8] ^	**1.99**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 14:49	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:49	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 14:49	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 14:49	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:49	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 12:05	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 14:49	JDH	
Zinc [7440-66-6] ^	**6.32**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 14:49	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-AMW2S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-08
Sampled: 03/21/13 15:55
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/29/13 09:59	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/29/13 09:59	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/29/13 09:59	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 09:59	REF	
1,1-Dichloroethane [75-34-3] ^	**1.6**	J	ug/L	1	0.13	1.0	5	EPA 8260B	03/29/13 09:59	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 09:59	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 09:59	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/29/13 09:59	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/29/13 09:59	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/29/13 09:59	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/29/13 09:59	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/29/13 09:59	REF	
1,4-Dichlorobenzene [106-46-7] ^	**2.2**		ug/L	1	0.19	1.0	1	EPA 8260B	03/29/13 09:59	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/29/13 09:59	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/29/13 09:59	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/29/13 09:59	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/29/13 09:59	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/29/13 09:59	REF	
Benzene [71-43-2] ^	**1.2**		ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 09:59	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/29/13 09:59	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 09:59	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/29/13 09:59	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/29/13 09:59	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/29/13 09:59	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 09:59	REF	
Chlorobenzene [108-90-7] ^	**2.4**	J	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 09:59	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/29/13 09:59	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/29/13 09:59	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 09:59	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**1.8**	J	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 09:59	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/29/13 09:59	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 09:59	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/29/13 09:59	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 09:59	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/29/13 09:59	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 09:59	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/29/13 09:59	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 09:59	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 09:59	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 09:59	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 09:59	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/29/13 09:59	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 09:59	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/29/13 09:59	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/29/13 09:59	REF	
Vinyl chloride [75-01-4] ^	**0.49**	J	ug/L	1	0.32	1.0	1	EPA 8260B	03/29/13 09:59	REF	

www.encolabs.com

Description: 4501-AMW2S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-08
Sampled: 03/21/13 15:55
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/29/13 09:59	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*3C28014*	*EPA 8260B*	*03/29/13 09:59*	*REF*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*3C28014*	*EPA 8260B*	*03/29/13 09:59*	*REF*	
Toluene-d8	*44*	*1*	*50.0*	*88 %*	*67-127*	*3C28014*	*EPA 8260B*	*03/29/13 09:59*	*REF*	

www.encolabs.com

Description: 4501-AMW2S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-08
Sampled: 03/21/13 15:55
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/26/13 13:43	T1D	

www.encolabs.com

Description: 4501-AMW2S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-08
Sampled: 03/21/13 15:55
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 12:09	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 14:51	JDH	
Barium [7440-39-3] ^	**8.94**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 14:51	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 14:51	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 14:51	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 14:51	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 14:51	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 14:51	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:51	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 14:51	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 14:51	JDH	
Silver [7440-22-4] ^	**2.17**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:51	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 12:09	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 14:51	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 14:51	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-AMW2D
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-09
Sampled: 03/21/13 16:00
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/29/13 10:28	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/29/13 10:28	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/29/13 10:28	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 10:28	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/29/13 10:28	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 10:28	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 10:28	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/29/13 10:28	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/29/13 10:28	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/29/13 10:28	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/29/13 10:28	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/29/13 10:28	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/29/13 10:28	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/29/13 10:28	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/29/13 10:28	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/29/13 10:28	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/29/13 10:28	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/29/13 10:28	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 10:28	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/29/13 10:28	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 10:28	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/29/13 10:28	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/29/13 10:28	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/29/13 10:28	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 10:28	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 10:28	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/29/13 10:28	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/29/13 10:28	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 10:28	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 10:28	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/29/13 10:28	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 10:28	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/29/13 10:28	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 10:28	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/29/13 10:28	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 10:28	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/29/13 10:28	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 10:28	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 10:28	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 10:28	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 10:28	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/29/13 10:28	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 10:28	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/29/13 10:28	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/29/13 10:28	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/29/13 10:28	REF	

www.encolabs.com

Description: 4501-AMW2D
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-09
Sampled: 03/21/13 16:00
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/29/13 10:28	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*51-122*	*3C28014*	*EPA 8260B*	*03/29/13 10:28*	*REF*	
Dibromofluoromethane	*51*	*1*	*50.0*	*101 %*	*68-117*	*3C28014*	*EPA 8260B*	*03/29/13 10:28*	*REF*	
Toluene-d8	*43*	*1*	*50.0*	*87 %*	*67-127*	*3C28014*	*EPA 8260B*	*03/29/13 10:28*	*REF*	

www.encolabs.com

Description: 4501-AMW2D
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-09
Sampled: 03/21/13 16:00
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/26/13 13:45	T1D	

www.encolabs.com

Description: 4501-AMW2D
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-09
Sampled: 03/21/13 16:00
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 12:13	VLO	
Arsenic [7440-38-2] ^	**3.04**	J	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 14:54	JDH	
Barium [7440-39-3] ^	**1.74**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 14:54	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 14:54	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 14:54	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 14:54	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 14:54	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 14:54	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:54	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 14:54	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 14:54	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:54	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 12:13	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 14:54	JDH	
Zinc [7440-66-6] ^	**5.00**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 14:54	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-BR1 | **Lab Sample ID:** C302336-10 | **Received:** 03/22/13 10:10
Matrix: Surface Water | **Sampled:** 03/21/13 10:55 | **Work Order:** C302336
Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/29/13 10:58	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/29/13 10:58	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/29/13 10:58	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 10:58	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/29/13 10:58	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 10:58	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 10:58	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/29/13 10:58	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/29/13 10:58	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/29/13 10:58	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/29/13 10:58	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/29/13 10:58	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/29/13 10:58	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/29/13 10:58	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/29/13 10:58	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/29/13 10:58	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/29/13 10:58	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/29/13 10:58	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 10:58	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/29/13 10:58	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 10:58	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/29/13 10:58	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/29/13 10:58	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/29/13 10:58	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 10:58	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 10:58	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/29/13 10:58	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/29/13 10:58	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 10:58	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 10:58	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/29/13 10:58	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 10:58	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/29/13 10:58	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 10:58	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/29/13 10:58	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 10:58	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/29/13 10:58	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 10:58	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 10:58	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 10:58	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 10:58	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/29/13 10:58	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 10:58	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/29/13 10:58	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/29/13 10:58	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/29/13 10:58	REF	

www.encolabs.com

Description: 4501-BR1
Matrix: Surface Water
Project: Henderson Co. LF

Lab Sample ID: C302336-10
Sampled: 03/21/13 10:55
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/29/13 10:58	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*3C28014*	*EPA 8260B*	*03/29/13 10:58*	*REF*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*3C28014*	*EPA 8260B*	*03/29/13 10:58*	*REF*	
Toluene-d8	*44*	*1*	*50.0*	*87 %*	*67-127*	*3C28014*	*EPA 8260B*	*03/29/13 10:58*	*REF*	

www.encolabs.com

Description: 4501-BR1 | **Lab Sample ID:** C302336-10 | **Received:** 03/22/13 10:10

Matrix: Surface Water | **Sampled:** 03/21/13 10:55 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 12:17	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 14:56	JDH	
Barium [7440-39-3] ^	**41.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 14:56	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 14:56	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 14:56	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 14:56	JDH	
Cobalt [7440-48-4] ^	**1.77**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 14:56	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 14:56	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:56	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 14:56	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 14:56	JDH	
Silver [7440-22-4] ^	**1.94**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:56	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 12:17	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 14:56	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 14:56	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-BR2 | **Lab Sample ID:** C302336-11 | **Received:** 03/22/13 10:10

Matrix: Surface Water | **Sampled:** 03/21/13 15:10 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/29/13 11:27	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/29/13 11:27	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/29/13 11:27	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 11:27	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/29/13 11:27	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 11:27	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 11:27	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/29/13 11:27	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/29/13 11:27	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/29/13 11:27	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/29/13 11:27	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/29/13 11:27	REF	
1,4-Dichlorobenzene [106-46-7] ^	**1.4**		ug/L	1	0.19	1.0	1	EPA 8260B	03/29/13 11:27	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/29/13 11:27	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/29/13 11:27	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/29/13 11:27	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/29/13 11:27	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/29/13 11:27	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 11:27	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/29/13 11:27	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 11:27	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/29/13 11:27	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/29/13 11:27	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/29/13 11:27	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 11:27	REF	
Chlorobenzene [108-90-7] ^	**0.46**	J	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 11:27	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/29/13 11:27	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/29/13 11:27	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 11:27	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 11:27	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/29/13 11:27	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 11:27	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/29/13 11:27	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 11:27	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/29/13 11:27	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 11:27	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/29/13 11:27	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 11:27	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 11:27	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 11:27	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 11:27	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/29/13 11:27	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 11:27	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/29/13 11:27	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/29/13 11:27	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/29/13 11:27	REF	

www.encolabs.com

Description: 4501-BR2
Matrix: Surface Water
Project: Henderson Co. LF

Lab Sample ID: C302336-11
Sampled: 03/21/13 15:10
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/29/13 11:27	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*3C28014*	*EPA 8260B*	*03/29/13 11:27*	*REF*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*3C28014*	*EPA 8260B*	*03/29/13 11:27*	*REF*	
Toluene-d8	*43*	*1*	*50.0*	*87 %*	*67-127*	*3C28014*	*EPA 8260B*	*03/29/13 11:27*	*REF*	

www.encolabs.com

Description: 4501-BR2 | **Lab Sample ID:** C302336-11 | **Received:** 03/22/13 10:10

Matrix: Surface Water | **Sampled:** 03/21/13 15:10 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 12:21	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 14:59	JDH	
Barium [7440-39-3] ^	**171**		ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 14:59	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 14:59	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 14:59	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 14:59	JDH	
Cobalt [7440-48-4] ^	**3.49**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 14:59	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 14:59	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:59	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 14:59	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 14:59	JDH	
Silver [7440-22-4] ^	**2.72**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 14:59	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 12:21	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 14:59	JDH	
Zinc [7440-66-6] ^	**6.72**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 14:59	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-BR3 | **Lab Sample ID:** C302336-12 | **Received:** 03/22/13 10:10

Matrix: Surface Water | **Sampled:** 03/21/13 16:10 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/29/13 11:57	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/29/13 11:57	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/29/13 11:57	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 11:57	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/29/13 11:57	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 11:57	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 11:57	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/29/13 11:57	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/29/13 11:57	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/29/13 11:57	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/29/13 11:57	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/29/13 11:57	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/29/13 11:57	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/29/13 11:57	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/29/13 11:57	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/29/13 11:57	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/29/13 11:57	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/29/13 11:57	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 11:57	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/29/13 11:57	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 11:57	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/29/13 11:57	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/29/13 11:57	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/29/13 11:57	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 11:57	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 11:57	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/29/13 11:57	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/29/13 11:57	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 11:57	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 11:57	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/29/13 11:57	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 11:57	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/29/13 11:57	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 11:57	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/29/13 11:57	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 11:57	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/29/13 11:57	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 11:57	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 11:57	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 11:57	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 11:57	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/29/13 11:57	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 11:57	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/29/13 11:57	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/29/13 11:57	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/29/13 11:57	REF	

www.encolabs.com

Description: 4501-BR3
Matrix: Surface Water
Project: Henderson Co. LF

Lab Sample ID: C302336-12
Sampled: 03/21/13 16:10
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/29/13 11:57	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*99 %*	*51-122*	*3C28014*	*EPA 8260B*	*03/29/13 11:57*	*REF*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*3C28014*	*EPA 8260B*	*03/29/13 11:57*	*REF*	
Toluene-d8	*44*	*1*	*50.0*	*88 %*	*67-127*	*3C28014*	*EPA 8260B*	*03/29/13 11:57*	*REF*	

www.encolabs.com

Description: 4501-BR3 | **Lab Sample ID:** C302336-12 | **Received:** 03/22/13 10:10

Matrix: Surface Water | **Sampled:** 03/21/13 16:10 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 12:25	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 15:01	JDH	
Barium [7440-39-3] ^	**194**		ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 15:01	JDH	
Beryllium [7440-41-7] ^	**0.227**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 15:01	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 15:01	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 15:01	JDH	
Cobalt [7440-48-4] ^	**2.03**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 15:01	JDH	
Copper [7440-50-8] ^	**1.60**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 15:01	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 15:01	JDH	
Nickel [7440-02-0] ^	**2.04**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 15:01	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 15:01	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 15:01	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 12:25	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 15:01	JDH	
Zinc [7440-66-6] ^	**35.9**		ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 15:01	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-SW1 | **Lab Sample ID:** C302336-13 | **Received:** 03/22/13 10:10

Matrix: Surface Water | **Sampled:** 03/21/13 14:45 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/29/13 12:26	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/29/13 12:26	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/29/13 12:26	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 12:26	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/29/13 12:26	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 12:26	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 12:26	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/29/13 12:26	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/29/13 12:26	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/29/13 12:26	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/29/13 12:26	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/29/13 12:26	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/29/13 12:26	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/29/13 12:26	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/29/13 12:26	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/29/13 12:26	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/29/13 12:26	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/29/13 12:26	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 12:26	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/29/13 12:26	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 12:26	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/29/13 12:26	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/29/13 12:26	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/29/13 12:26	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 12:26	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 12:26	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/29/13 12:26	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/29/13 12:26	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 12:26	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 12:26	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/29/13 12:26	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 12:26	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/29/13 12:26	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 12:26	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/29/13 12:26	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 12:26	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/29/13 12:26	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 12:26	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 12:26	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 12:26	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 12:26	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/29/13 12:26	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 12:26	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/29/13 12:26	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/29/13 12:26	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/29/13 12:26	REF	

www.encolabs.com

Description: 4501-SW1
Matrix: Surface Water
Project: Henderson Co. LF

Lab Sample ID: C302336-13
Sampled: 03/21/13 14:45
Sampled By: daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/29/13 12:26	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*3C28014*	*EPA 8260B*	*03/29/13 12:26*	*REF*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*3C28014*	*EPA 8260B*	*03/29/13 12:26*	*REF*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*67-127*	*3C28014*	*EPA 8260B*	*03/29/13 12:26*	*REF*	

www.encolabs.com

Description: 4501-SW1 | **Lab Sample ID:** C302336-13 | **Received:** 03/22/13 10:10

Matrix: Surface Water | **Sampled:** 03/21/13 14:45 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 12:29	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 15:03	JDH	
Barium [7440-39-3] ^	**42.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 15:03	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 15:03	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 15:03	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 15:03	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 15:03	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 15:03	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 15:03	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 15:03	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 15:03	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 15:03	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 12:29	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 15:03	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 15:03	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-TSW2 | **Lab Sample ID:** C302336-14 | **Received:** 03/22/13 10:10

Matrix: Surface Water | **Sampled:** 03/21/13 11:55 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/29/13 12:55	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/29/13 12:55	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/29/13 12:55	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 12:55	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/29/13 12:55	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 12:55	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 12:55	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/29/13 12:55	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/29/13 12:55	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/29/13 12:55	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/29/13 12:55	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/29/13 12:55	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/29/13 12:55	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/29/13 12:55	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/29/13 12:55	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/29/13 12:55	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/29/13 12:55	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/29/13 12:55	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 12:55	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/29/13 12:55	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 12:55	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/29/13 12:55	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/29/13 12:55	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/29/13 12:55	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 12:55	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 12:55	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/29/13 12:55	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/29/13 12:55	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 12:55	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 12:55	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/29/13 12:55	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 12:55	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/29/13 12:55	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 12:55	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/29/13 12:55	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 12:55	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/29/13 12:55	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 12:55	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 12:55	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 12:55	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 12:55	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/29/13 12:55	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 12:55	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/29/13 12:55	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/29/13 12:55	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/29/13 12:55	REF	

www.encolabs.com

Description: 4501-TSW2
Matrix: Surface Water
Project: Henderson Co. LF

Lab Sample ID: C302336-14
Sampled: 03/21/13 11:55
Sampled By: daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/29/13 12:55	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*51-122*	*3C28014*	*EPA 8260B*	*03/29/13 12:55*	*REF*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*68-117*	*3C28014*	*EPA 8260B*	*03/29/13 12:55*	*REF*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*67-127*	*3C28014*	*EPA 8260B*	*03/29/13 12:55*	*REF*	

www.encolabs.com

Description: 4501-TSW2 | **Lab Sample ID:** C302336-14 | **Received:** 03/22/13 10:10

Matrix: Surface Water | **Sampled:** 03/21/13 11:55 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 12:33	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 15:13	JDH	
Barium [7440-39-3] ^	**354**		ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 15:13	JDH	
Beryllium [7440-41-7] ^	**1.23**		ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 15:13	JDH	
Cadmium [7440-43-9] ^	**0.398**	J	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 15:13	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 15:13	JDH	
Cobalt [7440-48-4] ^	**2.15**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 15:13	JDH	
Copper [7440-50-8] ^	**2.12**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 15:13	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 15:13	JDH	
Nickel [7440-02-0] ^	**3.68**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 15:13	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 15:13	JDH	
Silver [7440-22-4] ^	**2.75**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 15:13	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 12:33	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 15:13	JDH	
Zinc [7440-66-6] ^	**22.9**		ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 15:13	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-Field Blank
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-15
Sampled: 03/21/13 16:20
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	04/01/13 16:55	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	04/01/13 16:55	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	04/01/13 16:55	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	04/01/13 16:55	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/01/13 16:55	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	04/01/13 16:55	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/01/13 16:55	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	04/01/13 16:55	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/01/13 16:55	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	04/01/13 16:55	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	04/01/13 16:55	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	04/01/13 16:55	JKG	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	04/01/13 16:55	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/01/13 16:55	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	04/01/13 16:55	JKG	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	04/01/13 16:55	JKG	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	04/01/13 16:55	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	04/01/13 16:55	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	04/01/13 16:55	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	04/01/13 16:55	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	04/01/13 16:55	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/01/13 16:55	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	04/01/13 16:55	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	04/01/13 16:55	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	04/01/13 16:55	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	04/01/13 16:55	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/01/13 16:55	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	04/01/13 16:55	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	04/01/13 16:55	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/01/13 16:55	JKG	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	04/01/13 16:55	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	04/01/13 16:55	JKG	

www.encolabs.com

Description: 4501-Field Blank
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-15
Sampled: 03/21/13 16:20
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	04/01/13 16:55	JKG	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	04/01/13 16:55	JKG	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	04/01/13 16:55	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	04/01/13 16:55	JKG	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	04/01/13 16:55	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
Tetrahydrofuran [109-99-9] ^	**21**		ug/L	1	0.80	1.0	NE	EPA 8260B	04/01/13 16:55	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	04/01/13 16:55	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	04/01/13 16:55	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	04/01/13 16:55	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	04/01/13 16:55	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	04/01/13 16:55	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*107 %*	*51-122*	*3C29025*	*EPA 8260B*	*04/01/13 16:55*	*JKG*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*68-117*	*3C29025*	*EPA 8260B*	*04/01/13 16:55*	*JKG*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*67-127*	*3C29025*	*EPA 8260B*	*04/01/13 16:55*	*JKG*	

www.encolabs.com

Description: 4501-Field Blank
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-15
Sampled: 03/21/13 16:20
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	03/29/13 19:50	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/29/13 19:50	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/29/13 19:50	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:50	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:50	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	03/29/13 19:50	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/29/13 19:50	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:50	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 19:50	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	03/29/13 19:50	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:50	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	03/29/13 19:50	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 19:50	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:50	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	03/29/13 19:50	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:50	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 19:50	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	03/29/13 19:50	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/29/13 19:50	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	03/29/13 19:50	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	03/29/13 19:50	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	03/29/13 19:50	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/29/13 19:50	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 19:50	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	03/29/13 19:50	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	03/29/13 19:50	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	03/29/13 19:50	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:50	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:50	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:50	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/29/13 19:50	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:50	DFM	

www.encolabs.com

Description: 4501-Field Blank | **Lab Sample ID:** C302336-15 | **Received:** 03/22/13 10:10
Matrix: Ground Water | **Sampled:** 03/21/13 16:20 | **Work Order:** C302336
Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/29/13 19:50	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	03/29/13 19:50	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:50	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:50	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/13 19:50	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:50	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 19:50	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/29/13 19:50	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:50	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 19:50	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	03/29/13 19:50	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:50	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/29/13 19:50	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/29/13 19:50	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 19:50	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 19:50	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:50	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:50	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 19:50	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/29/13 19:50	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/29/13 19:50	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	03/29/13 19:50	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	03/29/13 19:50	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/29/13 19:50	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:50	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	03/29/13 19:50	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:50	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/29/13 19:50	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 19:50	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/29/13 19:50	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	03/29/13 19:50	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	

www.encolabs.com

Description: 4501-Field Blank
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-15
Sampled: 03/21/13 16:20
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/29/13 19:50	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/29/13 19:50	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:50	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/29/13 19:50	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/29/13 19:50	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/29/13 19:50	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:50	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:50	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/29/13 19:50	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/29/13 19:50	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/29/13 19:50	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/29/13 19:50	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/29/13 19:50	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*75*	*1*	*100*	*75 %*	*10-179*	*3C26005*	*EPA 8270D*	*03/29/13 19:50*	*DFM*	
2-Fluorobiphenyl	*39*	*1*	*50.0*	*79 %*	*10-149*	*3C26005*	*EPA 8270D*	*03/29/13 19:50*	*DFM*	
2-Fluorophenol	*55*	*1*	*100*	*55 %*	*10-110*	*3C26005*	*EPA 8270D*	*03/29/13 19:50*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*80 %*	*10-149*	*3C26005*	*EPA 8270D*	*03/29/13 19:50*	*DFM*	
Phenol-d5	*44*	*1*	*100*	*44 %*	*10-88*	*3C26005*	*EPA 8270D*	*03/29/13 19:50*	*DFM*	
Terphenyl-d14	*40*	*1*	*50.0*	*81 %*	*10-188*	*3C26005*	*EPA 8270D*	*03/29/13 19:50*	*DFM*	

www.encolabs.com

Description: 4501-Field Blank
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-15
Sampled: 03/21/13 16:20
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	04/03/13 21:41	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	04/03/13 21:41	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	04/03/13 21:41	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	04/03/13 21:41	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	04/03/13 21:41	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	04/03/13 21:41	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	04/03/13 21:41	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	04/03/13 21:41	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	04/03/13 21:41	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	04/03/13 21:41	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	04/03/13 21:41	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	04/03/13 21:41	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	04/03/13 21:41	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	04/03/13 21:41	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	04/03/13 21:41	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	04/03/13 21:41	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	04/03/13 21:41	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	04/03/13 21:41	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	04/03/13 21:41	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	04/03/13 21:41	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	04/03/13 21:41	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*103 %*	*44-134*	*3C27020*	*EPA 8081B*	*04/03/13 21:41*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*107 %*	*37-149*	*3C27020*	*EPA 8081B*	*04/03/13 21:41*	*MSZ*	

www.encolabs.com

Description: 4501-Field Blank
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-15
Sampled: 03/21/13 16:20
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	04/03/13 21:41	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	04/03/13 21:41	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	04/03/13 21:41	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	04/03/13 21:41	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	04/03/13 21:41	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50		EPA 8082A	04/03/13 21:41	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*103 %*	*45-151*	*3C27023*	*EPA 8082A*	*04/03/13 21:41*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*107 %*	*42-159*	*3C27023*	*EPA 8082A*	*04/03/13 21:41*	*MSZ*	

www.encolabs.com

Description:	4501-Field Blank	**Lab Sample ID:**	C302336-15	**Received:**	03/22/13 10:10
Matrix:	Ground Water	**Sampled:**	03/21/13 16:20	**Work Order:**	C302336
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/26/13 13:47	T1D	

www.encolabs.com

Description: 4501-Field Blank
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-15
Sampled: 03/21/13 16:20
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 12:37	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 15:15	JDH	
Barium [7440-39-3] ^	**1.34**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 15:15	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 15:15	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 15:15	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 15:15	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 15:15	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 15:15	JDH	
Iron [7439-89-6] ^	22.0	U	ug/L	1	22.0	50.0	300	EPA 6010C	03/27/13 15:15	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 15:15	JDH	
Manganese [7439-96-5] ^	**7.96**	J	ug/L	1	1.10	10.0	50	EPA 6010C	03/27/13 15:15	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 15:15	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 15:15	JDH	
Silver [7440-22-4] ^	**2.11**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 15:15	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 12:37	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	03/27/13 15:15	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 15:15	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 15:15	JDH	

www.encolabs.com

Description: 4501-Field Blank
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-15
Sampled: 03/21/13 16:20
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	03/31/13 08:55	JCS	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	03/25/13 11:45	JOC	

www.encolabs.com

Description:	4501-Field Blank	**Lab Sample ID:**	C302336-15	**Received:**	03/22/13 10:10
Matrix:	Ground Water	**Sampled:**	03/21/13 16:20	**Work Order:**	C302336
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	03/28/13 14:28	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.2*	*1*	*2.00*	*108 %*	*68-139*	*3C27005*	*EPA 8151A*	*03/28/13 14:28*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-Trip Blank
Matrix: Surface Water
Project: Henderson Co. LF

Lab Sample ID: C302336-16
Sampled: 03/20/13 14:34
Sampled By: ENCO

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/28/13 22:03	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/28/13 22:03	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/28/13 22:03	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/13 22:03	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/28/13 22:03	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/13 22:03	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/28/13 22:03	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/28/13 22:03	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/28/13 22:03	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/28/13 22:03	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/28/13 22:03	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/28/13 22:03	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/28/13 22:03	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/28/13 22:03	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/28/13 22:03	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	03/28/13 22:03	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/28/13 22:03	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	03/28/13 22:03	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/28/13 22:03	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/28/13 22:03	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/28/13 22:03	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/28/13 22:03	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/28/13 22:03	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/28/13 22:03	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/28/13 22:03	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/28/13 22:03	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/13 22:03	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/28/13 22:03	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/13 22:03	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/28/13 22:03	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/28/13 22:03	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/28/13 22:03	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/13 22:03	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/28/13 22:03	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/28/13 22:03	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/28/13 22:03	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/13 22:03	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/28/13 22:03	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/28/13 22:03	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/28/13 22:03	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/28/13 22:03	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/28/13 22:03	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	03/28/13 22:03	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/28/13 22:03	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/13 22:03	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/28/13 22:03	REF	

www.encolabs.com

Description: 4501-Trip Blank
Matrix: Surface Water
Project: Henderson Co. LF

Lab Sample ID: C302336-16
Sampled: 03/20/13 14:34
Sampled By: ENCO

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/28/13 22:03	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/28/13 22:03	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/28/13 22:03	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/28/13 22:03	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/28/13 22:03	REF	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/28/13 22:03	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/28/13 22:03	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/13 22:03	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/13 22:03	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/13 22:03	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/13 22:03	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/28/13 22:03	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/13 22:03	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/28/13 22:03	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/28/13 22:03	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/28/13 22:03	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/28/13 22:03	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*3C28013*	*EPA 8260B*	*03/28/13 22:03*	*REF*	
Dibromofluoromethane	*49*	*1*	*50.0*	*99 %*	*68-117*	*3C28013*	*EPA 8260B*	*03/28/13 22:03*	*REF*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*67-127*	*3C28013*	*EPA 8260B*	*03/28/13 22:03*	*REF*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-MW9 | **Lab Sample ID:** C302336-19 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 09:40 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	04/01/13 17:24	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	04/01/13 17:24	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	04/01/13 17:24	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	04/01/13 17:24	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/01/13 17:24	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	04/01/13 17:24	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	04/01/13 17:24	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	04/01/13 17:24	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/01/13 17:24	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	04/01/13 17:24	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	04/01/13 17:24	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	04/01/13 17:24	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	04/01/13 17:24	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	04/01/13 17:24	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/01/13 17:24	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	04/01/13 17:24	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	04/01/13 17:24	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	04/01/13 17:24	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/01/13 17:24	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	04/01/13 17:24	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	04/01/13 17:24	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	04/01/13 17:24	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	04/01/13 17:24	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	04/01/13 17:24	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	04/01/13 17:24	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	04/01/13 17:24	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	04/01/13 17:24	JKG	

www.encolabs.com

Description: 4501-MW9
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C302336-19
Sampled: 03/21/13 09:40
Sampled By: daniel Childress

Received: 03/22/13 10:10
Work Order: C302336

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	04/01/13 17:24	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*51-122*	*3C29025*	*EPA 8260B*	*04/01/13 17:24*	*JKG*	
Dibromofluoromethane	*55*	*1*	*50.0*	*109 %*	*68-117*	*3C29025*	*EPA 8260B*	*04/01/13 17:24*	*JKG*	
Toluene-d8	*54*	*1*	*50.0*	*107 %*	*67-127*	*3C29025*	*EPA 8260B*	*04/01/13 17:24*	*JKG*	

www.encolabs.com

Description: 4501-MW9 | **Lab Sample ID:** C302336-19 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 09:40 | **Work Order:** C302336

Project: Henderson Co. LF | **Sampled By:** daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/27/13 12:53	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 15:18	JDH	
Barium [7440-39-3] ^	**192**		ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 15:18	JDH	
Beryllium [7440-41-7] ^	**1.68**		ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 15:18	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 15:18	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 15:18	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 15:18	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 15:18	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 15:18	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 15:18	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 15:18	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 15:18	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/27/13 12:53	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 15:18	JDH	
Zinc [7440-66-6] ^	**12.0**		ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 15:18	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3C28013 - EPA 5030B_MS

Blank (3C28013-BLK1) Prepared: 03/28/2013 12:43 Analyzed: 03/28/2013 16:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3C28013 - EPA 5030B_MS

Blank (3C28013-BLK1) Continued Prepared: 03/28/2013 12:43 Analyzed: 03/28/2013 16:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*86*	*67-127*			

LCS (3C28013-BS1) Prepared: 03/28/2013 12:43 Analyzed: 03/28/2013 17:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		120	75-133			
Benzene	21		1.0	ug/L	20.0		107	81-134			
Chlorobenzene	22		1.0	ug/L	20.0		110	83-117			
Toluene	22		1.0	ug/L	20.0		110	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	74-119			

Matrix Spike (3C28013-MS1) Prepared: 03/28/2013 12:43 Analyzed: 03/28/2013 17:36

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0	0.21 U	129	75-133			
Benzene	24		1.0	ug/L	20.0	3.0	106	81-134			
Chlorobenzene	23		1.0	ug/L	20.0	1.0	110	83-117			
Toluene	23		1.0	ug/L	20.0	0.14 U	115	71-118			
Trichloroethene	24		1.0	ug/L	20.0	3.9	100	74-119			

Matrix Spike Dup (3C28013-MSD1) Prepared: 03/28/2013 12:43 Analyzed: 03/28/2013 18:06

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	27		1.0	ug/L	20.0	0.21 U	134	75-133	4	20	QM-07
Benzene	25		1.0	ug/L	20.0	3.0	108	81-134	2	17	
Chlorobenzene	24		1.0	ug/L	20.0	1.0	114	83-117	4	16	
Toluene	23		1.0	ug/L	20.0	0.14 U	114	71-118	0.2	17	
Trichloroethene	25		1.0	ug/L	20.0	3.9	105	74-119	5	22	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3C28014 - EPA 5030B_MS

Blank (3C28014-BLK1) Prepared: 03/28/2013 12:49 Analyzed: 03/29/2013 04:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3C28014 - EPA 5030B_MS

Blank (3C28014-BLK1) Continued Prepared: 03/28/2013 12:49 Analyzed: 03/29/2013 04:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*89*	*67-127*			

LCS (3C28014-BS1) Prepared: 03/28/2013 12:49 Analyzed: 03/29/2013 04:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		115	75-133			
Benzene	19		1.0	ug/L	20.0		97	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			
Trichloroethene	17		1.0	ug/L	20.0		86	74-119			

Matrix Spike (3C28014-MS1) Prepared: 03/28/2013 12:49 Analyzed: 03/29/2013 05:02

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	28		1.0	ug/L	20.0	0.21 U	139	75-133			QM-07
Benzene	23		1.0	ug/L	20.0	0.15 U	116	81-134			
Chlorobenzene	23		1.0	ug/L	20.0	0.17 U	113	83-117			
Toluene	23		1.0	ug/L	20.0	0.14 U	117	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	102	74-119			

Matrix Spike Dup (3C28014-MSD1) Prepared: 03/28/2013 12:49 Analyzed: 03/29/2013 05:32

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.21 U	126	75-133	10	20	
Benzene	21		1.0	ug/L	20.0	0.15 U	107	81-134	7	17	
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	110	83-117	3	16	
Toluene	23		1.0	ug/L	20.0	0.14 U	113	71-118	4	17	
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	99	74-119	3	22	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3C28014 - EPA 5030B_MS

Batch 3C29025 - EPA 5030B_MS

Blank (3C29025-BLK1) Prepared: 03/29/2013 14:26 Analyzed: 04/01/2013 11:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3C29025 - EPA 5030B_MS

Blank (3C29025-BLK1) Continued Prepared: 03/29/2013 14:26 Analyzed: 04/01/2013 11:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*51-122*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*105*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*104*	*67-127*			

LCS (3C29025-BS1) Prepared: 03/29/2013 14:26 Analyzed: 04/01/2013 12:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		102	75-133			
Benzene	18		1.0	ug/L	20.0		92	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		92	83-117			
Toluene	18		1.0	ug/L	20.0		91	71-118			
Trichloroethene	18		1.0	ug/L	20.0		89	74-119			

Matrix Spike (3C29025-MS1) Prepared: 03/29/2013 14:26 Analyzed: 04/01/2013 12:29

Source: C303708-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	111	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	97	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117			
Toluene	19		1.0	ug/L	20.0	0.14 U	95	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	92	74-119			

Matrix Spike Dup (3C29025-MSD1) Prepared: 03/29/2013 14:26 Analyzed: 04/01/2013 12:59

Source: C303708-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	94	75-133	16	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	94	81-134	3	17	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3C29025 - EPA 5030B_MS

Matrix Spike Dup (3C29025-MSD1) Continued Prepared: 03/29/2013 14:26 Analyzed: 04/01/2013 12:59

Source: C303708-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	17		1.0	ug/L	20.0	0.17 U	87	83-117	12	16	
Toluene	17		1.0	ug/L	20.0	0.14 U	87	71-118	9	17	
Trichloroethene	17		1.0	ug/L	20.0	0.15 U	83	74-119	11	22	

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3C26005 - EPA 3510C_MS

Blank (3C26005-BLK1) Prepared: 03/26/2013 08:38 Analyzed: 03/29/2013 15:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
1,3,5-Trinitrobenzene	3.0	U	10	ug/L							
1,3-Dinitrobenzene	1.9	U	10	ug/L							
1,4-Naphthoquinone	2.5	U	10	ug/L							
1,4-Phenylenediamine	4.0	U	10	ug/L							
1-Naphthylamine	1.9	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dichlorophenol	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Acetylaminofluorene	2.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Naphthylamine	3.0	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3,3'-Dimethylbenzidine	2.2	U	10	ug/L							
3-Methylcholanthrene	1.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Aminobiphenyl	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
5-Nitro-o-toluidine	3.2	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3C26005 - EPA 3510C_MS

Blank (3C26005-BLK1) Continued Prepared: 03/26/2013 08:38 Analyzed: 03/29/2013 15:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
7,12-Dimethylbenz(a)anthracene	1.1	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chlorobenzilate	1.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Diallate	1.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethoate	2.3	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Disulfoton	1.1	U	10	ug/L							
Ethyl methanesulfonate	1.2	U	10	ug/L							
Famphur	2.7	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Hexachloropropene	1.7	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isodrin	1.0	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Isosafrole	1.3	U	10	ug/L							
Kepone	7.2	U	20	ug/L							
Methapyrilene	3.5	U	10	ug/L							
Methyl Methanesulfonate	1.0	U	10	ug/L							
Methyl parathion	2.5	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodiethylamine	1.3	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitrosodi-n-butylamine	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3C26005 - EPA 3510C_MS

Blank (3C26005-BLK1) Continued Prepared: 03/26/2013 08:38 Analyzed: 03/29/2013 15:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
N-Nitrosomethylethylamine	1.9	U	10	ug/L							
N-Nitrosopiperidine	1.1	U	10	ug/L							
N-Nitrosopyrrolidine	1.3	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	1.3	U	10	ug/L							
o-Toluidine	1.1	U	10	ug/L							
Parathion	1.7	U	10	ug/L							
p-Dimethylaminoazobenzene	1.4	U	10	ug/L							
Pentachlorobenzene	1.3	U	10	ug/L							
Pentachloronitrobenzene	1.0	U	10	ug/L							
Phenacetin	2.7	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Phorate	1.0	U	10	ug/L							
Pronamide	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Safrole	1.2	U	10	ug/L							
Thionazin	2.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*78*			*ug/L*	*100*		*78*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*36*			*ug/L*	*50.0*		*72*	*10-149*			
Surrogate: 2-Fluorophenol	*50*			*ug/L*	*100*		*50*	*10-110*			
Surrogate: Nitrobenzene-d5	*36*			*ug/L*	*50.0*		*72*	*10-149*			
Surrogate: Phenol-d5	*43*			*ug/L*	*100*		*43*	*10-88*			
Surrogate: Terphenyl-d14	*40*			*ug/L*	*50.0*		*80*	*10-188*			

LCS (3C26005-BS1) Prepared: 03/26/2013 08:38 Analyzed: 03/29/2013 15:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	35		10	ug/L	50.0		71	40-109			
4-Chloro-3-methylphenol	41		10	ug/L	50.0		81	58-121			
4-Nitrophenol	25		10	ug/L	50.0		50	33-105			
Acenaphthene	39		10	ug/L	50.0		79	39-125			
N-Nitroso-di-n-propylamine	38		10	ug/L	50.0		76	48-126			
Phenol	22		10	ug/L	50.0		44	19-78			
Pyrene	39		10	ug/L	50.0		78	44-137			
Surrogate: 2,4,6-Tribromophenol	*85*			*ug/L*	*100*		*85*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*40*			*ug/L*	*50.0*		*79*	*10-149*			
Surrogate: 2-Fluorophenol	*51*			*ug/L*	*100*		*51*	*10-110*			
Surrogate: Nitrobenzene-d5	*38*			*ug/L*	*50.0*		*76*	*10-149*			
Surrogate: Phenol-d5	*41*			*ug/L*	*100*		*41*	*10-88*			
Surrogate: Terphenyl-d14	*40*			*ug/L*	*50.0*		*79*	*10-188*			

Matrix Spike (3C26005-MS1) Prepared: 03/26/2013 08:38 Analyzed: 03/29/2013 16:16

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	35		10	ug/L	50.0	1.2 U	69	40-109			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3C26005 - EPA 3510C_MS

Matrix Spike (3C26005-MS1) Continued Prepared: 03/26/2013 08:38 Analyzed: 03/29/2013 16:16

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Chloro-3-methylphenol	44		10	ug/L	50.0	1.5 U	87	58-121			
4-Nitrophenol	30		10	ug/L	50.0	2.0 U	59	33-105			
Acenaphthene	39		10	ug/L	50.0	1.4 U	78	39-125			
N-Nitroso-di-n-propylamine	36		10	ug/L	50.0	1.5 U	72	48-126			
Phenol	22		10	ug/L	50.0	1.4 U	44	19-78			
Pyrene	36		10	ug/L	50.0	2.1 U	71	44-137			
Surrogate: 2,4,6-Tribromophenol	*90*			*ug/L*	*100*		*90*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*36*			*ug/L*	*50.0*		*73*	*10-149*			
Surrogate: 2-Fluorophenol	*49*			*ug/L*	*100*		*49*	*10-110*			
Surrogate: Nitrobenzene-d5	*36*			*ug/L*	*50.0*		*72*	*10-149*			
Surrogate: Phenol-d5	*42*			*ug/L*	*100*		*42*	*10-88*			
Surrogate: Terphenyl-d14	*38*			*ug/L*	*50.0*		*75*	*10-188*			

Matrix Spike Dup (3C26005-MSD1) Prepared: 03/26/2013 08:38 Analyzed: 03/29/2013 16:43

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	35		10	ug/L	50.0	1.2 U	70	40-109	1	22	
4-Chloro-3-methylphenol	39		10	ug/L	50.0	1.5 U	79	58-121	10	22	
4-Nitrophenol	28		10	ug/L	50.0	2.0 U	57	33-105	4	27	
Acenaphthene	39		10	ug/L	50.0	1.4 U	79	39-125	0.8	25	
N-Nitroso-di-n-propylamine	36		10	ug/L	50.0	1.5 U	72	48-126	0.5	23	
Phenol	22		10	ug/L	50.0	1.4 U	44	19-78	0.2	18	
Pyrene	36		10	ug/L	50.0	2.1 U	73	44-137	2	24	
Surrogate: 2,4,6-Tribromophenol	*84*			*ug/L*	*100*		*84*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*38*			*ug/L*	*50.0*		*76*	*10-149*			
Surrogate: 2-Fluorophenol	*51*			*ug/L*	*100*		*51*	*10-110*			
Surrogate: Nitrobenzene-d5	*38*			*ug/L*	*50.0*		*75*	*10-149*			
Surrogate: Phenol-d5	*43*			*ug/L*	*100*		*43*	*10-88*			
Surrogate: Terphenyl-d14	*39*			*ug/L*	*50.0*		*78*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 3C27020 - EPA 3510C

Blank (3C27020-BLK1) Prepared: 03/27/2013 10:48 Analyzed: 04/03/2013 19:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.044	U	0.050	ug/L							
4,4'-DDE	0.048	U	0.050	ug/L							
4,4'-DDT	0.049	U	0.050	ug/L							
Aldrin	0.041	U	0.050	ug/L							
alpha-BHC	0.036	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.048	U	0.050	ug/L							
Chlordane-gamma	0.042	U	0.050	ug/L							

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 3C27020 - EPA 3510C

Blank (3C27020-BLK1) Continued Prepared: 03/27/2013 10:48 Analyzed: 04/03/2013 19:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
delta-BHC	0.048	U	0.050	ug/L							
Dieldrin	0.045	U	0.050	ug/L							
Endosulfan I	0.045	U	0.050	ug/L							
Endosulfan II	0.036	U	0.050	ug/L							
Endosulfan sulfate	0.032	U	0.050	ug/L							
Endrin	0.041	U	0.050	ug/L							
Endrin aldehyde	0.042	U	0.050	ug/L							
gamma-BHC	0.034	U	0.050	ug/L							
Heptachlor	0.030	U	0.050	ug/L							
Heptachlor epoxide	0.037	U	0.050	ug/L							
Methoxychlor	0.025	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.94*			*ug/L*	*1.00*		*94*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*114*	*37-149*			

LCS (3C27020-BS1) Prepared: 03/27/2013 10:48 Analyzed: 04/03/2013 19:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.88		0.050	ug/L	1.00		88	37-139			
Dieldrin	1.0		0.050	ug/L	1.00		101	46-132			
Endrin	0.99		0.050	ug/L	1.00		99	43-133			
Surrogate: 2,4,5,6-TCMX	*0.94*			*ug/L*	*1.00*		*94*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.2*			*ug/L*	*1.00*		*120*	*37-149*			

Matrix Spike (3C27020-MS1) Prepared: 03/27/2013 10:48 Analyzed: 04/03/2013 19:42

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.77		0.050	ug/L	1.00	0.049 U	77	37-139			
Dieldrin	0.87		0.050	ug/L	1.00	0.045 U	87	46-132			
Endrin	1.3		0.050	ug/L	1.00	0.041 U	132	43-133			
Surrogate: 2,4,5,6-TCMX	*1.1*			*ug/L*	*1.00*		*107*	*44-134*			
Surrogate: Decachlorobiphenyl [2C]	*1.0*			*ug/L*	*1.00*		*103*	*37-149*			

Matrix Spike Dup (3C27020-MSD1) Prepared: 03/27/2013 10:48 Analyzed: 04/03/2013 19:55

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.63		0.050	ug/L	1.00	0.049 U	63	37-139	20	26	
Dieldrin	0.67		0.050	ug/L	1.00	0.045 U	67	46-132	27	27	
Endrin	1.0		0.050	ug/L	1.00	0.041 U	102	43-133	26	26	
Surrogate: 2,4,5,6-TCMX	*0.88*			*ug/L*	*1.00*		*88*	*44-134*			
Surrogate: Decachlorobiphenyl [2C]	*0.98*			*ug/L*	*1.00*		*98*	*37-149*			

Polychlorinated Biphenyls by GC - Quality Control

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 3C27023 - EPA 3510C

Blank (3C27023-BLK1) Prepared: 03/27/2013 11:04 Analyzed: 04/03/2013 19:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.19	U	0.50	ug/L							
PCB-1221	0.046	U	0.50	ug/L							
PCB-1232	0.028	U	0.50	ug/L							
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.015	U	0.50	ug/L							
PCB-1260	0.13	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.94*			*ug/L*	*1.00*		*94*	*45-151*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*114*	*42-159*			

LCS (3C27023-BS1) Prepared: 03/27/2013 11:04 Analyzed: 04/03/2013 20:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	11		0.50	ug/L	10.0		108	66-149			
PCB-1260	9.5		0.50	ug/L	10.0		95	53-179			
Surrogate: 2,4,5,6-TCMX	*0.94*			*ug/L*	*1.00*		*94*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.96*			*ug/L*	*1.00*		*96*	*42-159*			

Matrix Spike (3C27023-MS1) Prepared: 03/27/2013 11:04 Analyzed: 04/03/2013 20:22

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	15		0.50	ug/L	10.0	0.19 U	154	66-149			QM-07
PCB-1260	9.5		0.50	ug/L	10.0	0.13 U	95	53-179			
Surrogate: 2,4,5,6-TCMX	*0.62*			*ug/L*	*1.00*		*62*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.55*			*ug/L*	*1.00*		*55*	*42-159*			

Matrix Spike Dup (3C27023-MSD1) Prepared: 03/27/2013 11:04 Analyzed: 04/03/2013 20:35

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	18		0.50	ug/L	10.0	0.19 U	185	66-149	18	21	QM-07
PCB-1260	9.5		0.50	ug/L	10.0	0.13 U	95	53-179	0.2	26	
Surrogate: 2,4,5,6-TCMX	*0.65*			*ug/L*	*1.00*		*65*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.95*			*ug/L*	*1.00*		*95*	*42-159*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3C25025 - EPA 7470A

Blank (3C25025-BLK1) Prepared: 03/25/2013 10:03 Analyzed: 03/26/2013 13:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (3C25025-BS1) Prepared: 03/25/2013 10:03 Analyzed: 03/26/2013 13:13

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3C25025 - EPA 7470A

LCS (3C25025-BS1) Continued Prepared: 03/25/2013 10:03 Analyzed: 03/26/2013 13:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.24		0.200	ug/L	5.00		85	80-120			

Matrix Spike (3C25025-MS1) Prepared: 03/25/2013 10:03 Analyzed: 03/26/2013 13:17

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.23		0.200	ug/L	5.00	0.170 U	65	75-125			QM-07

Matrix Spike Dup (3C25025-MSD1) Prepared: 03/25/2013 10:03 Analyzed: 03/26/2013 13:19

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	2.83		0.200	ug/L	5.00	0.170 U	57	75-125	13	25	QM-07

Post Spike (3C25025-PS1) Prepared: 03/25/2013 10:03 Analyzed: 03/26/2013 13:21

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	2.76		0.200	ug/L	5.00	0.0330	55	75-125			QM-08

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 3C25022 - EPA 3005A

Blank (3C25022-BLK1) Prepared: 03/25/2013 09:58 Analyzed: 03/27/2013 14:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Iron	22.0	U	50.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Manganese	1.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Selenium	4.50	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Tin	2.10	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (3C25022-BS1) Prepared: 03/25/2013 09:58 Analyzed: 03/27/2013 14:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 3C25022 - EPA 3005A

LCS (3C25022-BS1) Continued Prepared: 03/25/2013 09:58 Analyzed: 03/27/2013 14:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	214		10.0	ug/L	200		107	80-120			
Barium	216		10.0	ug/L	200		108	80-120			
Beryllium	21.7		1.00	ug/L	20.0		109	80-120			
Cadmium	21.3		1.00	ug/L	20.0		107	80-120			
Chromium	216		10.0	ug/L	200		108	80-120			
Cobalt	219		10.0	ug/L	200		109	80-120			
Copper	215		10.0	ug/L	200		107	80-120			
Iron	1050		50.0	ug/L	1000		105	80-120			
Lead	216		10.0	ug/L	200		108	80-120			
Manganese	217		10.0	ug/L	200		108	80-120			
Nickel	217		10.0	ug/L	200		108	80-120			
Selenium	217		10.0	ug/L	200		108	80-120			
Silver	216		10.0	ug/L	200		108	80-120			
Tin	212		10.0	ug/L	200		106	80-120			
Vanadium	211		10.0	ug/L	200		105	80-120			
Zinc	215		10.0	ug/L	200		107	80-120			

Matrix Spike (3C25022-MS1) Prepared: 03/25/2013 09:58 Analyzed: 03/27/2013 14:20

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	206		10.0	ug/L	200	2.80 U	103	75-125			
Barium	1170		10.0	ug/L	200	957	107	75-125			
Beryllium	21.9		1.00	ug/L	20.0	0.327	108	75-125			
Cadmium	21.4		1.00	ug/L	20.0	0.360 U	107	75-125			
Chromium	209		10.0	ug/L	200	1.40 U	105	75-125			
Cobalt	216		10.0	ug/L	200	3.67	106	75-125			
Copper	217		10.0	ug/L	200	2.57	107	75-125			
Iron	4760		50.0	ug/L	1000	3520	124	75-125			
Lead	212		10.0	ug/L	200	1.90 U	106	75-125			
Manganese	8640		10.0	ug/L	200	8520	61	75-125			QM-07
Nickel	215		10.0	ug/L	200	1.80 U	108	75-125			
Selenium	226		10.0	ug/L	200	4.50 U	113	75-125			
Silver	214		10.0	ug/L	200	3.58	105	75-125			
Tin	213		10.0	ug/L	200	6.88	103	75-125			
Vanadium	211		10.0	ug/L	200	2.47	104	75-125			
Zinc	275		10.0	ug/L	200	60.1	107	75-125			

Matrix Spike Dup (3C25022-MSD1) Prepared: 03/25/2013 09:58 Analyzed: 03/27/2013 14:23

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	207		10.0	ug/L	200	2.80 U	104	75-125	0.6	20	
Barium	1160		10.0	ug/L	200	957	102	75-125	1	20	
Beryllium	21.8		1.00	ug/L	20.0	0.327	108	75-125	0.4	20	
Cadmium	21.2		1.00	ug/L	20.0	0.360 U	106	75-125	1	20	
Chromium	209		10.0	ug/L	200	1.40 U	104	75-125	0.2	20	
Cobalt	214		10.0	ug/L	200	3.67	105	75-125	1	20	

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 3C25022 - EPA 3005A

Matrix Spike Dup (3C25022-MSD1) Continued Prepared: 03/25/2013 09:58 Analyzed: 03/27/2013 14:23

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	215		10.0	ug/L	200	2.57	106	75-125	0.9	20	
Iron	4640		50.0	ug/L	1000	3520	112	75-125	2	20	
Lead	210		10.0	ug/L	200	1.90 U	105	75-125	0.9	20	
Manganese	8590		10.0	ug/L	200	8520	33	75-125	0.6	20	QM-07
Nickel	214		10.0	ug/L	200	1.80 U	107	75-125	0.7	20	
Selenium	215		10.0	ug/L	200	4.50 U	107	75-125	5	20	
Silver	212		10.0	ug/L	200	3.58	104	75-125	0.9	20	
Tin	212		10.0	ug/L	200	6.88	103	75-125	0.4	20	
Vanadium	210		10.0	ug/L	200	2.47	104	75-125	0.3	20	
Zinc	270		10.0	ug/L	200	60.1	105	75-125	2	20	

Post Spike (3C25022-PS1) Prepared: 03/25/2013 09:58 Analyzed: 03/27/2013 14:25

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.203		0.0100	mg/L	0.200	-0.00382	103	80-120			
Barium	1.12		0.0100	mg/L	0.200	0.957	82	80-120			
Beryllium	0.0205		0.00100	mg/L	0.0200	0.000327	101	80-120			
Cadmium	0.0203		0.00100	mg/L	0.0200	-4.90E-5	102	80-120			
Chromium	0.196		0.0100	mg/L	0.200	-0.00133	99	80-120			
Cobalt	0.203		0.0100	mg/L	0.200	0.00367	100	80-120			
Copper	0.201		0.0100	mg/L	0.200	0.00257	99	80-120			
Iron	4.37		0.0500	mg/L	1.00	3.52	86	80-120			
Lead	0.198		0.0100	mg/L	0.200	0.00164	98	80-120			
Manganese	8.53		0.0100	mg/L	0.200	8.52	3	80-120			QM-08
Nickel	0.203		0.0100	mg/L	0.200	-5.02E-5	102	80-120			
Selenium	0.203		0.0100	mg/L	0.200	-0.00265	103	80-120			
Silver	0.200		0.0100	mg/L	0.200	0.00358	98	80-120			
Tin	0.203		0.0100	mg/L	0.200	0.00688	98	80-120			
Vanadium	0.197		0.0100	mg/L	0.200	0.00247	97	80-120			
Zinc	0.258		0.0100	mg/L	0.200	0.0601	99	80-120			

Batch 3C25023 - EPA 3005A

Blank (3C25023-BLK1) Prepared: 03/25/2013 10:00 Analyzed: 03/27/2013 11:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (3C25023-BS1) Prepared: 03/25/2013 10:00 Analyzed: 03/27/2013 11:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	207		2.00	ug/L	200		103	80-120			
Thallium	212		1.00	ug/L	200		106	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 3C25023 - EPA 3005A

Matrix Spike (3C25023-MS1) Prepared: 03/25/2013 10:00 Analyzed: 03/27/2013 11:21

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	205		2.00	ug/L	200	0.621	102	75-125			
Thallium	172		1.00	ug/L	200	0.659	86	75-125			

Matrix Spike Dup (3C25023-MSD1) Prepared: 03/25/2013 10:00 Analyzed: 03/27/2013 11:25

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	203		2.00	ug/L	200	0.621	101	75-125	1	20	
Thallium	173		1.00	ug/L	200	0.659	86	75-125	0.4	20	

Post Spike (3C25023-PS1) Prepared: 03/25/2013 10:00 Analyzed: 03/27/2013 11:29

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	212		2.00	ug/L	200	0.621	106	80-120			
Thallium	176		1.00	ug/L	200	0.659	88	80-120			

Classical Chemistry Parameters - Quality Control

Batch 3C25020 - NO PREP

Blank (3C25020-BLK1) Prepared: 03/25/2013 11:30 Analyzed: 03/25/2013 11:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L							

LCS (3C25020-BS1) Prepared: 03/25/2013 11:30 Analyzed: 03/25/2013 11:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.41		0.10	mg/L	0.401		102	80-120			

Duplicate (3C25020-DUP1) Prepared: 03/25/2013 11:30 Analyzed: 03/25/2013 11:45

Source: C302336-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L		10 U				25	

Matrix Spike (3C25020-MS1) Prepared: 03/25/2013 11:30 Analyzed: 03/25/2013 11:45

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L	401	10 U		80-120			QM-05

Matrix Spike Dup (3C25020-MSD1) Prepared: 03/25/2013 11:30 Analyzed: 03/25/2013 11:45

Source: C302336-04

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 3C25020 - NO PREP

Matrix Spike Dup (3C25020-MSD1) Continued Prepared: 03/25/2013 11:30 Analyzed: 03/25/2013 11:45

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L	401	10 U		80-120		25	QM-05

Batch 3C29002 - Same

Blank (3C29002-BLK1) Prepared: 03/29/2013 09:10 Analyzed: 03/31/2013 08:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	4.9	U	10	ug/L							

LCS (3C29002-BS1) Prepared: 03/29/2013 09:10 Analyzed: 03/31/2013 08:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	150		10	ug/L	150		101	85-115			

Matrix Spike (3C29002-MS1) Prepared: 03/29/2013 09:10 Analyzed: 03/31/2013 08:44

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	160		10	ug/L	150	4.9 U	106	85-115			

Matrix Spike Dup (3C29002-MSD1) Prepared: 03/29/2013 09:10 Analyzed: 03/31/2013 08:46

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	160		10	ug/L	150	4.9 U	104	85-115	2	20	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 3C27005 - EPA 3510C

Blank (3C27005-BLK1) Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 17:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	0.16	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*1.5*			*ug/L*	*2.00*		*77*	*68-139*			

LCS (3C27005-BS1) Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 18:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.6		0.50	ug/L	2.00		80	37-129			
Surrogate: 2,4-DCAA	*1.6*			*ug/L*	*2.00*		*82*	*68-139*			

Matrix Spike (3C27005-MS1) Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 18:36

Source: A301803-02

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 3C27005 - EPA 3510C

Matrix Spike (3C27005-MS1) Continued Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 18:36

Source: A301803-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.2		0.50	ug/L	2.00	0.16 U	62	37-129			
Surrogate: 2,4-DCAA	*1.5*			*ug/L*	*2.00*		*76*	*68-139*			

Matrix Spike (3C27005-MS2) Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 19:52

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	4.0		0.50	ug/L	2.00	0.16 U	198	37-129			QM-07
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*107*	*68-139*			

Matrix Spike Dup (3C27005-MSD1) Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 19:01

Source: A301803-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.5		0.50	ug/L	2.00	0.16 U	73	37-129	16	33	
Surrogate: 2,4-DCAA	*1.6*			*ug/L*	*2.00*		*78*	*68-139*			

Matrix Spike Dup (3C27005-MSD2) Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 20:18

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	3.8		0.50	ug/L	2.00	0.16 U	189	37-129	4	33	QM-07
Surrogate: 2,4-DCAA	*1.9*			*ug/L*	*2.00*		*93*	*68-139*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD www.encolabs.com

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 1 of 4

Client Name: Golder Associates, Inc. (GO007)	Project Number: 08396506012.100
Address: 5B Oak Branch Drive	Project Name/Desc: Henderson Co. LF
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info
Tel: (336) 852-4903 Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): Daniel Childress, Golder	Billing Contact: Accounts Payable
Sampler(s) Signature: Daniel Childress	Site Location / Time Zone: Henderson Co, NC / EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C302336

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2,8052A Appendix 2,8151A Appendix 2,8270D Appendix 2	8260B Appendix 1	8260B Appendix 2	8260B Appendix 2,8260B Extended	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Se,Tl,V,Zn	Cyanide Total 9014	Hg	Hg/F	Sample Comments
	4501-MW5 (Background)	3/21/13	1010	G	GW	10	X		X			X		X	X		Dissolved Metals in addition to Total Metals
	4501-MW6	3/21/13	1130	G	GW	10	X		X			X		X	X		Dissolved Metals in addition to Total Metals
	4501-MW7	3/20/13	1608	G	GW	10	X		X			X		X	X		
	4501-MW8 (MS/MSD)	3/20/13	1434	G	GW	20	X		X			X		X	X		
	4501-MW8 (Dissolved)	3/20/13	1434	G	GW	1										X	
	4501-AMW1S	3/21/13	1535	G	GW	4		X					X		X		
	4501-AMW1D	3/21/13	1545	G	GW	4		X					X		X		
	4501-AMW2S	3/21/13	1555	G	GW	4		X					X		X		
	4501-AMW2D	3/21/13	1600	G	GW	4		X					X		X		
	4501-BR1	3/21/13	1055	G	SW	4		X					X				
	4501-BR2	3/21/13	1510	G	SW	4		X					X				
	4501-BR3	3/21/13	1610	G	SW	4		X					X				

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
RAY	3/6	Daniel Childress	3/22/13 0900	[illegible]	3/22/13 1010
		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Comments/Special Reporting Requirements
① Please provide "Level 2" data report.
② Unit rates per "Basic Ordering Agreement for Lab Services" dated 4/9/07 & 2008 Unit Price Sheet.
③ Est Fee: $5015

Cooler #'s & Temps on Receipt: C-538 1.9c C-332 2.3c C-950 2.5c C-825 1.1c

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

LOA per: Daniel Childress Accepted by: [illegible]

ENVIRONMENTAL CONSERVATION LABORATORIES **CHAIN-OF-CUSTODY RECORD** **www.encolabs.com**

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 2 of 4

Client Name: Golder Associates, Inc. (GO007)	Project Number: 08396506012.100
Address: 5B Oak Branch Drive	Project Name/Desc: Henderson Co. LF
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 852-4903 / Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): Daniel Childress, Golder	Billing Contact: Accounts Payable
Sampler(s) Signature: Daniel Childress	Site Location / Time Zone: Henderson Co, NC/EST

Requested Analyses: Sulfide SM4500-S D

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C302336

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Sulfide SM4500-S D	Sample Comments
	4501-MW5 (Background)	3/21/13	1010	G	GW	10	X	Dissolved metals in addition to Total Metals
	4501-MW6	3/21/13	1130	G	GW	10	X	Dissolved metals in addition to Total Metals
	4501-MW7	3/20/13	1608	G	GW	10	X	
	4501-MW8 (MS/MSD)	3/20/13	1434	G	GW	20	X	
	4501-MW8 (Dissolved)	3/20/13	1434	G	GW	1		
	4501-AMW1S	3/21/13	1535	G	GW	4		
	4501-AMW1D	3/21/13	1545	G	GW	4		
	4501-AMW2S	3/21/13	1555	G	GW	4		
	4501-AMW2D	3/21/13	1600	G	GW	4		
	4501-BR1	3/21/13	1055	G	SW	4		
	4501-BR2	3/21/13	1510	G	SW	4		
	4501-BR3	3/21/13	1610	G	SW	4		

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		Daniel Childress	3/22/13 0900	[illegible]	3/22/13 1010
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
See page 1		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

LOA per Daniel Childress

Accepted by [illegible]

ENVIRONMENTAL CONSERVATION LABORATORIES **CHAIN-OF-CUSTODY RECORD** **www.encolabs.com**

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 4 of 4

Client Name: Golder Associates, Inc. (GO007)	Project Number: 08396506012.100
Address: 5El Oak Branch Drive	Project Name/Desc: Henderson Co. LF
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 852-4903 Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): Daniel Childress, Golder	Billing Contact: Accounts Payable
Sampler(s) Signature: Daniel Childress	Site Location / Time Zone: Henderson Co., NC / EST

Requested Analyses: Sulfide SM4500-S D

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C302336

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Sulfide SM4500-S D	Sample Comments
	4501-SW1	3/21/13	1445	G	SW	4		
	~~4501-TSW1~~				~~SW~~	~~4~~		Not sampled, no visible flow
	4501-TSW2	3/21/13	1155	G	SW	4		
	4501-Field Blank	3/21/13	1620	G	GW	10	X	
	4501-Trip Blank	~~3/21/13~~			SW	2		

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: Daniel Childress	Date/Time: 3/22/13 0900	Received By: [illegible]	Date/Time: 3/22/13 10:10
Comments/Special Reporting Requirements: See page 1		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments) **Preservation:** **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

LOA per Daniel Childress

Accepted by [illegible]

ENVIRONMENTAL CONSERVATION LABORATORIES **CHAIN-OF-CUSTODY RECORD** www.encolabs.com

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 3 of 4

Client Name: Golder Associates, Inc. (GO007)	Project Number: 08396506012.100
Address: 5B Oak Branch Drive	Project Name/Desc: Henderson Co. LF
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 852-4903 Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): Daniel Childress, Golder	Billing Contact: Accounts Payable
Sampler(s) Signature: Daniel Childress	Site Location / Time Zone: Henderson Co, NC / EST

Requested Turnaround Times
Note : Rush requests subject to acceptance by the facility
___ Standard
___ Expedited
Due __/__/__
Lab Workorder: C302336

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2,8082A Appendix 2,8151A Appendix 2,8270D Appendix 2	8260B Appendix 1	8260B Appendix 2	8260B Appendix 2,8260B Extended	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Cyanide Total 9014	Hg	Hg/F	Sample Comments
	4501-SW1	3/21/13	1445	G	SW	4		X					X				
	~~4501-TSW1~~				~~SW~~	~~4~~		~~X~~					~~X~~				not sampled, no visible flow
	4501-TSW2	3/21/13	1155	G	SW	4		X					X				
	4501-Field Blank	3/21/13	1620	G	GW	10	X			X	X			X	X		
	4501-Trip Blank				SW	2			X								
	MW-9	3-21-13	0940		GW			X			X						

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: Daniel Childress	Date/Time: 3/22/13 0900	Received By: [signature]	Date/Time: 3/22/13 1010
Comments/Special Reporting Requirements: See page 1		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments) **Preservation:** **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

LOA per Daniel Childress

Accepted by [signature]

Project Name: Henderson County MSW Landfill

Project Reference Number: 0839-650612.100

Sampling Event Date: March 20-21, 2013

Review Date: April 8, 2013 *Initials:* DC

Report #: C302336

Person(s) performing the review are to initial each item on this form as acknowledgement of data acceptance, or as acknowledgement of a review issue. In the case of the latter, a brief explanation should follow the applicable item.

Golder Associates Inc. has reviewed the laboratory certificates of analysis, chain-of-custody form, and laboratory provided sample group quality assurance and quality control data for the above referenced sample group to identify potential bias or inaccuracy, in general accordance with the following United States Environmental Protection Agency documents:

- Region III Modifications to Functional Guidelines for Organic Data Review Multi-Media, Multi-Concentration, September 1994;
- Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, April 1993; and
- Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, July 1998.

COMPLIANCE ANALYTE LIST(S) (check all that apply)

_ NC Closed Facility List (.500 Rules)

_ NC C & D List (New Rules)

_ NC Appendix I

X NC Appendix I + Detects

X NC Appendix II

_ NC Subtitle D Leachate List

Other: Mercury and Sulfide

1.0 CHAIN OF CUSTODY (COC) REVIEW

DC COC was properly signed by all parties.

DC Correct project name and number are on the form.

- ***Project Number incorrectly listed as 08396506012.***

DC Sample receipt condition at laboratory was acceptable.

DC Each sample and blank submitted for analysis appears in the report.

2.0 SAMPLE HOLDING TIMES

DC Holding times for extraction and/or analysis were met for each analytical Method (see below for reference).

Review Criteria		
Method	**Analytes**	**Holding Time**
SW-846 Method 8260 and 8011	VOCs	14 days
SW-846 Methods 8270, 8080, 8081, 8082, and 8151	SVOCs, PCBs, pesticides and herbicides	7 days for extraction, 40 days from extraction for analysis
SW-846 Methods 6000 and 7000 Series	Metals except mercury	6 months (no temperature requirements)
SW-846 Method 7470	Mercury	28 days
SW-846 Method 376.1	Sulfide	7 days
SW-846 Method 9010	Cyanide	14 days
EPA Method 300	Nitrate/Sulfate	48 hours/28 days
EPA Method 405.1	BOD	48 hours
EPA Method 410.4	COD	28 days
EPA Method 365.4	Phosphorous	28 days

3.0 LABORATORY QUALITY CONTROL REVIEW

DC Laboratory analyzed at least one internal blank for each method, where applicable.

DC Laboratory blank is interference-free.

DC Surrogate recoveries are provided for each analytical method, where applicable.

DC Surrogate recoveries for each method are within the acceptable limits (i.e., at least 50% of the surrogates were within range).

DC MS/MSD/LCS data results are provided for each analytical method.

DC MS/MSD/LCS recoveries for each method are within the acceptable limits (i.e., at least 1 of the 3 were within range).

- ***The spike recovery of 1,1-Dichloroethene was outside of control limits for the 8260B MS and/or MSD samples. The QC batch was approved based on acceptable LCS recovery of this analyte.***
- ***The spike recovery of 2,4-D was outside of control limits for the 8151A MS and MSD samples. The QC batch was approved based on acceptable LCS recovery of this analyte.***
- ***The spike recovery of PCB-1016/1242 was outside of control limits for the 8082A MS and MSD samples. The QC batch wasapproved based on acceptable LCS recovery of this analyte.***
- ***The spike recoveries of Manganese and Mercury were outside of control limits for the MS, MSD, and/or Post Spike samples. The QC batches were approved based on acceptable LCS recovery of these analytes.***
- ***The spike recovery of Sulfide was outside of control limits for the MS and MSD samples. The QC batch was approved basedon acceptable LCS recovery of this analyte.***

4.0 ANALYTE LISTS/METHODS

DC The proper number of constituents are present for each analyte list as identified above (including detects where applicable).

DC Proper EPA SW-846 analytical methods were used for analysis.

5.0 DATA REPORTING

DC All analytical reporting associated with the event was performed by the contracted lab.

DC Trip, field and/or equipment, and laboratory blank results have all been reported. All detects for blanks are listed below by constituent. All laboratory method blanks, if any, have been 'flagged' with a 'B' where detected in other samples as appropriate and a laboratory narrative was provided. If the sample was flagged by the laboratory and is not within 5X of the concentration in the blank (or 10X for commonly detected laboratory contaminants-acetone, methylene chloride and phthalates), list below with explanation if flags should be removed. If flags need to be added for samples, also list below.

- ***Field Blank***
  - ***Barium @ 1.34 ug/L (J)*** ****B-flag: AMW-2D***
  - ***Silver @ 2.11 ug/L (J)*** ****B-flag: MW-7, -8, AMW-1S, -2S, BR-1, -2, & TSW-2***
  - ***Manganese @ 7.96 ug/L (J)***
  - ***THF @ 21 ug/L***

DC It is clear from the laboratory report that samples have or have not been diluted during analysis, and if the samples have been diluted, the result is reported as a multiple of the dilution (e.g., a sample diluted 10x resulting in an analytical detection of 1.0 should be reported as 10). Those that have been diluted are listed below with the dilution factor.

DC The report provides the reporting limit for each constituent.

DC The results were reported at or below their proper reporting limits (i.e., MDLs with SWSLs reported). Those that are not reported correctly are listed below (by constituent) with the proper reporting limit listed beside them. State if the reporting limit error is due to dilutions.

DC No organic constituents were reported above their respective SWSLs, and no inorganic or organic constituents were reported above their respective NC 2L Drinking Water Standards/GWPS in wells, or field/equipment/trip blanks, or above applicable surface water standards in surface water points.

- ***Barium*** ***(NC2L = 700 ug/L)***
  - ***MW-8 @ 957 ug/L***
- ***Cadmium*** ***(NC2L = 2 ug/L)***
  - ***MW-7 @ 3.30 ug/L***
- ***Cobalt*** ***(GPS = 1 ug/L)***
  - ***MW-5 @ 1.32 ug/L (J)***
  - ***MW-8 @ 3.67 ug/L (J)***
  - ***AMW-1S @ 5.62 ug/L (J)***
- ***Thallium*** ***(NC2L = 0.28 ug/L)***
  - ***MW-7 @ 0.413 ug/L (J)***
  - ***MW-8 @ 0.659 ug/L (J)***
  - ***AMW-1S @ 0.487 ug/L (J)***
- ***Vanadium*** ***(GPS = 0.3 ug/L)***
  - ***MW-5 @ 5.60 ug/L (J)***
  - ***MW-6 @ 2.36 ug/L (J)***
  - ***MW-8 @ 2.47 ug/L (J)***
- ***Benzene*** ***(SWSL & NC2L = 1 ug/L)***
  - ***MW-7 @ 1.5 ug/L***
  - ***MW-8 @ 3.0 ug/L***
  - ***AMW-1D @ 1.2 ug/L***
  - ***AMW-2S @ 1.2 ug/L***
- ***Chlorobenzene*** ***(SWSL = 3 ug/L)***
  - ***MW-7@ 10 ug/L***
  - ***AMW-1D @ 5.2 ug/L***
- ***1,4-Dichlorobenzene*** ***(SWSL = 1 ug/L)***
  (NC2L = 6 ug/L)
  - ***MW-7 @ 14 ug/L***
  - ***MW-8 @ 3.8 ug/L***
  - ***AMW-1D @ 5.0 ug/L***
  - ***AMW-2S @ 2.2 ug/L***
  - ***BR-2 @ 1.4 ug/L***
- ***1,1-Dichloroethane*** ***(SWSL = 5 ug/L)***
  (NC2L = 6 ug/L)
  - ***MW-8 @ 6.9 ug/L***
- ***cis-1,2-Dichloroethene*** ***(SWSL = 5 ug/L)***
  - ***MW-7 @ 5.6 ug/L***
  - ***MW-8 @ 13 ug/L***
- ***Methylene chloride*** ***(SWSL = 1 ug/L)***
  (NC2L = 5 ug/L)
  - ***MW-8 @ 11 ug/L***
- ***PCE*** ***(SWSL = 1 ug/L) (NC2L = 0.7 ug/L)***
  - ***MW-8 @ 11 ug/L***
- ***TCE*** ***(SWSL = 1 ug/L) (NC2L = 3 ug/L)***
  - ***MW-8 @ 3.9 ug/L***
- ***Vinyl Chloride*** ***(SWSL = 1 ug/L)***
  (NC2L = 0.03 ug/L)
  - ***MW-7 @ 1.0 ug/L***
  - ***MW-8 @ 0.77 ug/L (J)***
  - ***AMW-1D @ 0.50 ug/L (J)***
  - ***AMW-2S @ 0.49 ug/L (J)***
- ***Xylenes*** ***(SWSL = 5 ug/L)***
  - ***MW-8 @ 6.3 ug/L***

DC No inorganic and organic constituents were detected in a well or surface water point at quantified concentrations outside of their historical range (more than 5X previous concentrations or first-time detections).

- ***2,4-D*** ***(NC 2L = 70 ug/L)*** ****First-time detection***
  - ***MW-7 @ 0.75 ug/L (J)***

N/A Other report issues/Communications with laboratory/etc.:

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, April 4, 2013

Golder Associates, Inc. (GO007)

Attn: Dusty Reedy

5B Oak Branch Drive

Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 0839-6506012.100, Project Name/Desc: Henderson Co. LF C&D
ENCO Workorder(s): C302337

Dear Dusty Reedy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, March 22, 2013.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Stephanie Franz

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 44.

PROJECT NARRATIVE

Date: 04 April 2013
Client: Golder Associates, Inc. (GO007)
Project: Henderson Co. LF C&D
Lab ID: C302337

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

The spike recovery of 1,1-Dichloroethene was outside of control limits for the 8260B MS or MSD samples. The QC batches were approved based on acceptable LCS recovery of this analyte.

The spike recovery of 2,4-D was outside of control limits for the 8151 A MS and MSD samples. The QC batch was approved based on acceptable LCS recovery of this analyte.

Chloride was detected in the Method Blank at a low-level concentration (less than half of the MRL). Detections of this analyte should be considered to have a possible high bias if the concentration in the associated sample is not greater than ten times that of the detection in the Method Blank.

Quality Control Remarks

No Comments

Other Comments

All samples received under this work order arrived in acceptable conditions. The samples were not checked for residual chlorine, as it is not required.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Stephanie Franz
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4501-MW10 | **Lab ID: C302337-01** | **Sampled: 03/21/13 08:30** | **Received: 03/22/13 10:10**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	04/18/13		03/27/13	12:10	3/27/2013 12:10
EPA 310.2	04/04/13		03/26/13	07:14	3/26/2013 09:37
EPA 6010C	09/17/13		03/26/13	10:10	3/27/2013 13:03
EPA 6020A	09/17/13		03/26/13	10:23	4/1/2013 11:30
EPA 7470A	04/18/13		03/25/13	10:13	3/26/2013 14:17
EPA 8151A	03/28/13	05/06/13	03/27/13	03:30	3/28/2013 11:55
EPA 8260B	04/04/13		03/28/13	12:49	3/29/2013 13:54
SM 2540C-1997	03/28/13		03/26/13	15:08	3/26/2013 15:08

Client ID: 4501-MW11 (MS/MSD) | **Lab ID: C302337-02** | **Sampled: 03/21/13 13:30** | **Received: 03/22/13 10:10**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	04/18/13		03/27/13	12:26	3/27/2013 12:26
EPA 310.2	04/04/13		03/26/13	07:14	3/26/2013 09:33
EPA 6010C	09/17/13		03/26/13	10:10	3/27/2013 12:39
EPA 6020A	09/17/13		03/26/13	10:23	4/1/2013 11:09
EPA 7470A	04/18/13		03/25/13	10:13	3/26/2013 13:57
EPA 8151A	03/28/13	05/06/13	03/27/13	03:30	3/27/2013 19:27
EPA 8260B	04/04/13		03/28/13	12:49	3/29/2013 06:31
SM 2540C-1997	03/28/13		03/26/13	15:08	3/26/2013 15:08

Client ID: 4501-MW12 | **Lab ID: C302337-03** | **Sampled: 03/21/13 09:18** | **Received: 03/22/13 10:10**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	04/18/13		03/27/13	22:30	3/27/2013 22:30
EPA 310.2	04/04/13		03/26/13	07:14	3/26/2013 09:38
EPA 6010C	09/17/13		03/26/13	10:10	3/27/2013 13:05
EPA 6020A	09/17/13		03/26/13	10:23	4/1/2013 11:34
EPA 7470A	04/18/13		03/25/13	10:13	3/26/2013 14:19
EPA 8151A	03/28/13	05/06/13	03/27/13	03:30	3/28/2013 12:20
EPA 8260B	04/04/13		03/29/13	14:26	4/1/2013 15:26
SM 2540C-1997	03/28/13		03/26/13	15:08	3/26/2013 15:08

Client ID: 4501-MW13 | **Lab ID: C302337-04** | **Sampled: 03/20/13 11:01** | **Received: 03/22/13 10:10**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	04/17/13		03/27/13	13:17	3/27/2013 13:17
EPA 310.2	04/03/13		03/26/13	07:14	3/26/2013 09:39
EPA 6010C	09/16/13		03/26/13	10:10	3/27/2013 13:20
EPA 6020A	09/16/13		03/26/13	10:23	4/1/2013 11:38
EPA 7470A	04/17/13		03/25/13	10:13	3/26/2013 14:21
EPA 8151A	03/27/13	05/06/13	03/27/13	03:30	3/28/2013 12:46
SM 2540C-1997	03/27/13		03/26/13	15:08	3/26/2013 15:08

www.encolabs.com

Client ID: 4501-MW13	Lab ID: C302337-04RE1	Sampled: 03/20/13 11:01	Received: 03/22/13 10:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	04/03/13	03/29/13 14:26	4/1/2013 15:56

www.encolabs.com

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4501-MW10 **Lab ID: C302337-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	1.42	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloride	2600	JB	1	430	5000	NE	ug/L	EPA 300.0	J-01
Iron - Total	22.2	J	1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	2.22	J	1	1.10	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	1600	J	1	40	5000	250000	ug/L	EPA 300.0	
Total Alkalinity as CaCO3	15000		1	12000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	46000		1	10000	10000	NE	ug/L	SM 2540C-1997	
Zinc - Total	9.34	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW11 (MS/MSD) **Lab ID: C302337-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.323	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	48.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.785	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	6600	B	1	430	5000	NE	ug/L	EPA 300.0	J-01
cis-1,2-Dichloroethene	0.94	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1.54	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Iron - Total	4530		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	262		1	1.10	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	32000	J	1	40	5000	250000	ug/L	EPA 300.0	
Total Alkalinity as CaCO3	69000		1	12000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	270000		1	10000	10000	NE	ug/L	SM 2540C-1997	
Vanadium - Total	2.34	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.51	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	11.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW12 **Lab ID: C302337-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	6.8	J	1	1.2	5.0	100	ug/L	EPA 8260B	
Arsenic - Total	3.23	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	12.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.102	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	14000	B	1	430	5000	NE	ug/L	EPA 300.0	J-01
cis-1,2-Dichloroethene	0.86	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Copper - Total	1.97	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Iron - Total	594		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	285		1	1.10	10.0	50	ug/L	EPA 6010C	
Mercury - Total	0.199	J	1	0.170	0.200	0.2	ug/L	EPA 7470A	
Methylene chloride	1.3		1	0.23	1.0	1	ug/L	EPA 8260B	
Sulfate as SO4	16000	J	1	40	5000	250000	ug/L	EPA 300.0	
Tetrahydrofuran	34		1	0.80	1.0	NE	ug/L	EPA 8260B	
Total Alkalinity as CaCO3	96000		1	12000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	260000		1	10000	10000	NE	ug/L	SM 2540C-1997	
Vinyl chloride	0.70	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	11.9		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW13 **Lab ID: C302337-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
2,4-D	1.1	J	1	0.16	0.50	2	ug/L	EPA 8151A	

www.encolabs.com

Client ID: 4501-MW13								Lab ID: C302337-04	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	20.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloride	7300	B	1	430	5000	NE	ug/L	EPA 300.0	J-01
Cobalt - Total	2.35	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Iron - Total	2040		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	286		1	1.10	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	12000	J	1	40	5000	250000	ug/L	EPA 300.0	
Total Alkalinity as CaCO3	110000		1	12000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	260000		1	10000	10000	NE	ug/L	SM 2540C-1997	
Vanadium - Total	1.91	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	8.08	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW13								Lab ID: C302337-04RE1	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,1-Dichloroethane	0.46	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,1-Dichloroethene	3.1	J	1	0.21	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	0.41	J	1	0.19	1.0	1	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.6	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Tetrahydrofuran	9.0		1	0.80	1.0	NE	ug/L	EPA 8260B	
Trichlorofluoromethane	1.1		1	0.24	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	0.51	J	1	0.32	1.0	1	ug/L	EPA 8260B	

www.encolabs.com

ANALYTICAL RESULTS

Description: 4501-MW10 **Lab Sample ID:** C302337-01 **Received:** 03/22/13 10:10
Matrix: Ground Water **Sampled:** 03/21/13 08:30 **Work Order:** C302337
Project: Henderson Co. LF C&D **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/29/13 13:54	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/29/13 13:54	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/29/13 13:54	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 13:54	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/29/13 13:54	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 13:54	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 13:54	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/29/13 13:54	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/29/13 13:54	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/29/13 13:54	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/29/13 13:54	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/29/13 13:54	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/29/13 13:54	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/29/13 13:54	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/29/13 13:54	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/29/13 13:54	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/29/13 13:54	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/29/13 13:54	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 13:54	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/29/13 13:54	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 13:54	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/29/13 13:54	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/29/13 13:54	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/29/13 13:54	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 13:54	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 13:54	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/29/13 13:54	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/29/13 13:54	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 13:54	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 13:54	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/29/13 13:54	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 13:54	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/29/13 13:54	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 13:54	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/29/13 13:54	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 13:54	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/29/13 13:54	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 13:54	REF	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0	NE	EPA 8260B	03/29/13 13:54	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 13:54	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 13:54	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 13:54	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/29/13 13:54	REF	

www.encolabs.com

Description: 4501-MW10 | **Lab Sample ID:** C302337-01 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 08:30 | **Work Order:** C302337

Project: Henderson Co. LF C&D | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 13:54	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/29/13 13:54	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/29/13 13:54	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/29/13 13:54	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/29/13 13:54	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*3C28014*	*EPA 8260B*	*03/29/13 13:54*	*REF*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*3C28014*	*EPA 8260B*	*03/29/13 13:54*	*REF*	
Toluene-d8	*44*	*1*	*50.0*	*88 %*	*67-127*	*3C28014*	*EPA 8260B*	*03/29/13 13:54*	*REF*	

www.encolabs.com

Description: 4501-MW10
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C302337-01
Sampled: 03/21/13 08:30
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302337

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/26/13 14:17	T1D	

www.encolabs.com

Description: 4501-MW10 | **Lab Sample ID:** C302337-01 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 08:30 | **Work Order:** C302337

Project: Henderson Co. LF C&D | **Sampled By:** Daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	04/01/13 11:30	JDH	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 13:03	JDH	
Barium [7440-39-3] ^	**1.42**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 13:03	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 13:03	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 13:03	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 13:03	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 13:03	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 13:03	JDH	
Iron [7439-89-6] ^	**22.2**	J	ug/L	1	22.0	50.0	300	EPA 6010C	03/27/13 13:03	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 13:03	JDH	
Manganese [7439-96-5] ^	**2.22**	J	ug/L	1	1.10	10.0	50	EPA 6010C	03/27/13 13:03	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 13:03	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 13:03	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 13:03	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/01/13 11:30	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 13:03	JDH	
Zinc [7440-66-6] ^	**9.34**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 13:03	JDH	

www.encolabs.com

Description: 4501-MW10
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C302337-01
Sampled: 03/21/13 08:30
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302337

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**2600**	JB	ug/L	1	430	5000	NE	EPA 300.0	03/27/13 12:10	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**1600**	J	ug/L	1	40	5000	250000	EPA 300.0	03/27/13 12:10	AJB	
Total Alkalinity as CaCO3 [471-34-1] ^	**15000**		ug/L	1	12000	15000	NE	EPA 310.2	03/26/13 09:37	JCS	
Total Dissolved Solids [ECL-0156] ^	**46000**		ug/L	1	10000	10000	NE	SM 2540C-1997	03/26/13 15:08	MPL	

www.encolabs.com

Description:	4501-MW10	**Lab Sample ID:**	C302337-01	**Received:**	03/22/13 10:10
Matrix:	Ground Water	**Sampled:**	03/21/13 08:30	**Work Order:**	C302337
Project:	Henderson Co. LF C&D	**Sampled By:**	Daniel Childress		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	03/28/13 11:55	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.9*	*1*	*2.00*	*95 %*	*68-139*	*3C27005*	*EPA 8151A*	*03/28/13 11:55*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-MW11 (MS/MSD) **Lab Sample ID:** C302337-02 **Received:** 03/22/13 10:10
Matrix: Ground Water **Sampled:** 03/21/13 13:30 **Work Order:** C302337
Project: Henderson Co. LF C&D **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/29/13 06:31	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/29/13 06:31	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/29/13 06:31	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 06:31	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/29/13 06:31	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 06:31	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 06:31	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/29/13 06:31	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/29/13 06:31	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/29/13 06:31	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/29/13 06:31	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/29/13 06:31	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/29/13 06:31	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/29/13 06:31	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/29/13 06:31	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/29/13 06:31	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/29/13 06:31	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/29/13 06:31	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 06:31	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/29/13 06:31	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 06:31	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/29/13 06:31	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/29/13 06:31	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/29/13 06:31	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 06:31	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 06:31	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/29/13 06:31	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/29/13 06:31	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 06:31	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**0.94**	J	ug/L	1	0.15	1.0	5	EPA 8260B	03/29/13 06:31	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/29/13 06:31	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/29/13 06:31	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/29/13 06:31	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/29/13 06:31	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/29/13 06:31	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/29/13 06:31	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/29/13 06:31	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/29/13 06:31	REF	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0	NE	EPA 8260B	03/29/13 06:31	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/29/13 06:31	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/29/13 06:31	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 06:31	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/29/13 06:31	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/29/13 06:31	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/29/13 06:31	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/29/13 06:31	REF	

www.encolabs.com

Description: 4501-MW11 (MS/MSD) | **Lab Sample ID:** C302337-02 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 13:30 | **Work Order:** C302337

Project: Henderson Co. LF C&D | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	**0.51**	J	ug/L	1	0.32	1.0	1	EPA 8260B	03/29/13 06:31	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/29/13 06:31	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*51-122*	*3C28014*	*EPA 8260B*	*03/29/13 06:31*	*REF*	
Dibromofluoromethane	*51*	*1*	*50.0*	*101 %*	*68-117*	*3C28014*	*EPA 8260B*	*03/29/13 06:31*	*REF*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*67-127*	*3C28014*	*EPA 8260B*	*03/29/13 06:31*	*REF*	

www.encolabs.com

Description:	4501-MW11 (MS/MSD)	**Lab Sample ID:**	C302337-02	**Received:**	03/22/13 10:10
Matrix:	Ground Water	**Sampled:**	03/21/13 13:30	**Work Order:**	C302337
Project:	Henderson Co. LF C&D	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/26/13 13:57	T1D	

www.encolabs.com

Description: 4501-MW11 (MS/MSD) **Lab Sample ID:** C302337-02 **Received:** 03/22/13 10:10

Matrix: Ground Water **Sampled:** 03/21/13 13:30 **Work Order:** C302337

Project: Henderson Co. LF C&D **Sampled By:** Daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.323**	J	ug/L	1	0.220	2.00	6	EPA 6020A	04/01/13 11:09	JDH	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 12:39	JDH	
Barium [7440-39-3] ^	**48.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 12:39	JDH	
Beryllium [7440-41-7] ^	**0.785**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 12:39	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 12:39	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 12:39	JDH	
Cobalt [7440-48-4] ^	**1.54**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 12:39	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 12:39	JDH	
Iron [7439-89-6] ^	**4530**		ug/L	1	22.0	50.0	300	EPA 6010C	03/27/13 12:39	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 12:39	JDH	
Manganese [7439-96-5] ^	**262**		ug/L	1	1.10	10.0	50	EPA 6010C	03/27/13 12:39	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 12:39	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 12:39	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 12:39	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/01/13 11:09	JDH	
Vanadium [7440-62-2] ^	**2.34**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 12:39	JDH	
Zinc [7440-66-6] ^	**11.2**		ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 12:39	JDH	

www.encolabs.com

Description: 4501-MW11 (MS/MSD)
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C302337-02
Sampled: 03/21/13 13:30
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302337

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**6600**	B	ug/L	1	430	5000	NE	EPA 300.0	03/27/13 12:26	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**32000**	J	ug/L	1	40	5000	250000	EPA 300.0	03/27/13 12:26	AJB	
Total Alkalinity as CaCO3 [471-34-1] ^	**69000**		ug/L	1	12000	15000	NE	EPA 310.2	03/26/13 09:33	JCS	
Total Dissolved Solids [ECL-0156] ^	**270000**		ug/L	1	10000	10000	NE	SM 2540C-1997	03/26/13 15:08	MPL	

www.encolabs.com

Description:	4501-MW11 (MS/MSD)	**Lab Sample ID:**	C302337-02	**Received:**	03/22/13 10:10
Matrix:	Ground Water	**Sampled:**	03/21/13 13:30	**Work Order:**	C302337
Project:	Henderson Co. LF C&D	**Sampled By:**	Daniel Childress		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	03/27/13 19:27	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.7*	*1*	*2.00*	*86 %*	*68-139*	*3C27005*	*EPA 8151A*	*03/27/13 19:27*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-MW12 | **Lab Sample ID:** C302337-03 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 09:18 | **Work Order:** C302337

Project: Henderson Co. LF C&D | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	04/01/13 15:26	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	04/01/13 15:26	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	04/01/13 15:26	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	04/01/13 15:26	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/01/13 15:26	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	04/01/13 15:26	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	04/01/13 15:26	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	04/01/13 15:26	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/01/13 15:26	JKG	
Acetone [67-64-1] ^	**6.8**	J	ug/L	1	1.2	5.0	100	EPA 8260B	04/01/13 15:26	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	04/01/13 15:26	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	04/01/13 15:26	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	04/01/13 15:26	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	04/01/13 15:26	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/01/13 15:26	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	04/01/13 15:26	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	04/01/13 15:26	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	04/01/13 15:26	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.86**	J	ug/L	1	0.15	1.0	5	EPA 8260B	04/01/13 15:26	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	04/01/13 15:26	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	04/01/13 15:26	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	04/01/13 15:26	JKG	
Methylene chloride [75-09-2] ^	**1.3**		ug/L	1	0.23	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
Tetrahydrofuran [109-99-9] ^	**34**		ug/L	1	0.80	1.0	NE	EPA 8260B	04/01/13 15:26	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	04/01/13 15:26	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	04/01/13 15:26	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	04/01/13 15:26	JKG	

www.encolabs.com

Description: 4501-MW12 | **Lab Sample ID:** C302337-03 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 09:18 | **Work Order:** C302337

Project: Henderson Co. LF C&D | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	**0.70**	J	ug/L	1	0.32	1.0	1	EPA 8260B	04/01/13 15:26	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	04/01/13 15:26	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*3C29025*	*EPA 8260B*	*04/01/13 15:26*	*JKG*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*68-117*	*3C29025*	*EPA 8260B*	*04/01/13 15:26*	*JKG*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*67-127*	*3C29025*	*EPA 8260B*	*04/01/13 15:26*	*JKG*	

www.encolabs.com

Description:	4501-MW12	**Lab Sample ID:**	C302337-03	**Received:**	03/22/13 10:10
Matrix:	Ground Water	**Sampled:**	03/21/13 09:18	**Work Order:**	C302337
Project:	Henderson Co. LF C&D	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.199**	J	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/26/13 14:19	T1D	

www.encolabs.com

Description: 4501-MW12 | **Lab Sample ID:** C302337-03 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/21/13 09:18 | **Work Order:** C302337

Project: Henderson Co. LF C&D | **Sampled By:** Daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	04/01/13 11:34	JDH	
Arsenic [7440-38-2] ^	**3.23**	J	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 13:05	JDH	
Barium [7440-39-3] ^	**12.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 13:05	JDH	
Beryllium [7440-41-7] ^	**0.102**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 13:05	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 13:05	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 13:05	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 13:05	JDH	
Copper [7440-50-8] ^	**1.97**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 13:05	JDH	
Iron [7439-89-6] ^	**594**		ug/L	1	22.0	50.0	300	EPA 6010C	03/27/13 13:05	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 13:05	JDH	
Manganese [7439-96-5] ^	**285**		ug/L	1	1.10	10.0	50	EPA 6010C	03/27/13 13:05	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 13:05	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 13:05	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 13:05	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/01/13 11:34	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 13:05	JDH	
Zinc [7440-66-6] ^	**11.9**		ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 13:05	JDH	

www.encolabs.com

Description: 4501-MW12
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C302337-03
Sampled: 03/21/13 09:18
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302337

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**14000**	B	ug/L	1	430	5000	NE	EPA 300.0	03/27/13 22:30	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**16000**	J	ug/L	1	40	5000	250000	EPA 300.0	03/27/13 22:30	AJB	
Total Alkalinity as CaCO3 [471-34-1] ^	**96000**		ug/L	1	12000	15000	NE	EPA 310.2	03/26/13 09:38	JCS	
Total Dissolved Solids [ECL-0156] ^	**260000**		ug/L	1	10000	10000	NE	SM 2540C-1997	03/26/13 15:08	MPL	

www.encolabs.com

Description:	4501-MW12	**Lab Sample ID:**	C302337-03	**Received:**	03/22/13 10:10
Matrix:	Ground Water	**Sampled:**	03/21/13 09:18	**Work Order:**	C302337
Project:	Henderson Co. LF C&D	**Sampled By:**	Daniel Childress		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	03/28/13 12:20	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.1*	*1*	*2.00*	*107 %*	*68-139*	*3C27005*	*EPA 8151A*	*03/28/13 12:20*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 4501-MW13 | **Lab Sample ID:** C302337-04 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/20/13 11:01 | **Work Order:** C302337

Project: Henderson Co. LF C&D | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	04/01/13 15:56	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	04/01/13 15:56	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.46**	J	ug/L	1	0.13	1.0	5	EPA 8260B	04/01/13 15:56	JKG	
1,1-Dichloroethene [75-35-4] ^	**3.1**	J	ug/L	1	0.21	1.0	5	EPA 8260B	04/01/13 15:56	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/01/13 15:56	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	04/01/13 15:56	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**0.41**	J	ug/L	1	0.19	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	04/01/13 15:56	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	04/01/13 15:56	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/01/13 15:56	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	04/01/13 15:56	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	04/01/13 15:56	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	04/01/13 15:56	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	04/01/13 15:56	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	04/01/13 15:56	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/01/13 15:56	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	04/01/13 15:56	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	04/01/13 15:56	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	04/01/13 15:56	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.6**	J	ug/L	1	0.15	1.0	5	EPA 8260B	04/01/13 15:56	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	04/01/13 15:56	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	04/01/13 15:56	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	04/01/13 15:56	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
Tetrahydrofuran [109-99-9] ^	**9.0**		ug/L	1	0.80	1.0	NE	EPA 8260B	04/01/13 15:56	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	04/01/13 15:56	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	04/01/13 15:56	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
Trichlorofluoromethane [75-69-4] ^	**1.1**		ug/L	1	0.24	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	04/01/13 15:56	JKG	

www.encolabs.com

Description: 4501-MW13 | **Lab Sample ID:** C302337-04 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/20/13 11:01 | **Work Order:** C302337

Project: Henderson Co. LF C&D | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	**0.51**	J	ug/L	1	0.32	1.0	1	EPA 8260B	04/01/13 15:56	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	04/01/13 15:56	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*110 %*	*51-122*	*3C29025*	*EPA 8260B*	*04/01/13 15:56*	*JKG*	
Dibromofluoromethane	*53*	*1*	*50.0*	*107 %*	*68-117*	*3C29025*	*EPA 8260B*	*04/01/13 15:56*	*JKG*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*67-127*	*3C29025*	*EPA 8260B*	*04/01/13 15:56*	*JKG*	

www.encolabs.com

Description: 4501-MW13
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C302337-04
Sampled: 03/20/13 11:01
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302337

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/26/13 14:21	T1D	

www.encolabs.com

Description: 4501-MW13 | **Lab Sample ID:** C302337-04 | **Received:** 03/22/13 10:10

Matrix: Ground Water | **Sampled:** 03/20/13 11:01 | **Work Order:** C302337

Project: Henderson Co. LF C&D | **Sampled By:** Daniel Childress

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	04/01/13 11:38	JDH	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/27/13 13:20	JDH	
Barium [7440-39-3] ^	**20.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/27/13 13:20	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/27/13 13:20	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/27/13 13:20	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/27/13 13:20	JDH	
Cobalt [7440-48-4] ^	**2.35**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/27/13 13:20	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/27/13 13:20	JDH	
Iron [7439-89-6] ^	**2040**		ug/L	1	22.0	50.0	300	EPA 6010C	03/27/13 13:20	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 13:20	JDH	
Manganese [7439-96-5] ^	**286**		ug/L	1	1.10	10.0	50	EPA 6010C	03/27/13 13:20	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/27/13 13:20	JDH	
Selenium [7782-49-2] ^	4.50	U	ug/L	1	4.50	10.0	10	EPA 6010C	03/27/13 13:20	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/27/13 13:20	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	04/01/13 11:38	JDH	
Vanadium [7440-62-2] ^	**1.91**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/27/13 13:20	JDH	
Zinc [7440-66-6] ^	**8.08**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/27/13 13:20	JDH	

www.encolabs.com

Description: 4501-MW13
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C302337-04
Sampled: 03/20/13 11:01
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302337

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**7300**	B	ug/L	1	430	5000	NE	EPA 300.0	03/27/13 13:17	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**12000**	J	ug/L	1	40	5000	250000	EPA 300.0	03/27/13 13:17	AJB	
Total Alkalinity as CaCO3 [471-34-1] ^	**110000**		ug/L	1	12000	15000	NE	EPA 310.2	03/26/13 09:39	JCS	
Total Dissolved Solids [ECL-0156] ^	**260000**		ug/L	1	10000	10000	NE	SM 2540C-1997	03/26/13 15:08	MPL	

www.encolabs.com

Description: 4501-MW13
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C302337-04
Sampled: 03/20/13 11:01
Sampled By: Daniel Childress

Received: 03/22/13 10:10
Work Order: C302337

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	**1.1**	J	ug/L	1	0.16	0.50	2	EPA 8151A	03/28/13 12:46	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.2*	*1*	*2.00*	*112 %*	*68-139*	*3C27005*	*EPA 8151A*	*03/28/13 12:46*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3C28013 - EPA 5030B_MS

Blank (3C28013-BLK1) Prepared: 03/28/2013 12:43 Analyzed: 03/28/2013 16:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3C28013 - EPA 5030B_MS

Blank (3C28013-BLK1) Continued Prepared: 03/28/2013 12:43 Analyzed: 03/28/2013 16:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*86*	*67-127*			

LCS (3C28013-BS1) Prepared: 03/28/2013 12:43 Analyzed: 03/28/2013 17:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		120	75-133			
Benzene	21		1.0	ug/L	20.0		107	81-134			
Chlorobenzene	22		1.0	ug/L	20.0		110	83-117			
Toluene	22		1.0	ug/L	20.0		110	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	74-119			

Matrix Spike (3C28013-MS1) Prepared: 03/28/2013 12:43 Analyzed: 03/28/2013 17:36

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0	0.21 U	129	75-133			
Benzene	24		1.0	ug/L	20.0	3.0	106	81-134			
Chlorobenzene	23		1.0	ug/L	20.0	1.0	110	83-117			
Toluene	23		1.0	ug/L	20.0	0.14 U	115	71-118			
Trichloroethene	24		1.0	ug/L	20.0	3.9	100	74-119			

Matrix Spike Dup (3C28013-MSD1) Prepared: 03/28/2013 12:43 Analyzed: 03/28/2013 18:06

Source: C302336-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	27		1.0	ug/L	20.0	0.21 U	134	75-133	4	20	QM-07
Benzene	25		1.0	ug/L	20.0	3.0	108	81-134	2	17	
Chlorobenzene	24		1.0	ug/L	20.0	1.0	114	83-117	4	16	
Toluene	23		1.0	ug/L	20.0	0.14 U	114	71-118	0.2	17	
Trichloroethene	25		1.0	ug/L	20.0	3.9	105	74-119	5	22	

Batch 3C28014 - EPA 5030B_MS

Blank (3C28014-BLK1) Prepared: 03/28/2013 12:49 Analyzed: 03/29/2013 04:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3C28014 - EPA 5030B_MS

Blank (3C28014-BLK1) Continued Prepared: 03/28/2013 12:49 Analyzed: 03/29/2013 04:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*89*	*67-127*			

LCS (3C28014-BS1) Prepared: 03/28/2013 12:49 Analyzed: 03/29/2013 04:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		115	75-133			
Benzene	19		1.0	ug/L	20.0		97	81-134			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3C28014 - EPA 5030B_MS

LCS (3C28014-BS1) Continued Prepared: 03/28/2013 12:49 Analyzed: 03/29/2013 04:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			
Trichloroethene	17		1.0	ug/L	20.0		86	74-119			

Matrix Spike (3C28014-MS1) Prepared: 03/28/2013 12:49 Analyzed: 03/29/2013 05:02

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	28		1.0	ug/L	20.0	0.21 U	139	75-133			QM-07
Benzene	23		1.0	ug/L	20.0	0.15 U	116	81-134			
Chlorobenzene	23		1.0	ug/L	20.0	0.17 U	113	83-117			
Toluene	23		1.0	ug/L	20.0	0.14 U	117	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	102	74-119			

Matrix Spike Dup (3C28014-MSD1) Prepared: 03/28/2013 12:49 Analyzed: 03/29/2013 05:32

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.21 U	126	75-133	10	20	
Benzene	21		1.0	ug/L	20.0	0.15 U	107	81-134	7	17	
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	110	83-117	3	16	
Toluene	23		1.0	ug/L	20.0	0.14 U	113	71-118	4	17	
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	99	74-119	3	22	

Batch 3C29025 - EPA 5030B_MS

Blank (3C29025-BLK1) Prepared: 03/29/2013 14:26 Analyzed: 04/01/2013 11:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3C29025 - EPA 5030B_MS

Blank (3C29025-BLK1) Continued Prepared: 03/29/2013 14:26 Analyzed: 04/01/2013 11:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*51-122*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*105*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*104*	*67-127*			

LCS (3C29025-BS1) Prepared: 03/29/2013 14:26 Analyzed: 04/01/2013 12:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		102	75-133			
Benzene	18		1.0	ug/L	20.0		92	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		92	83-117			
Toluene	18		1.0	ug/L	20.0		91	71-118			
Trichloroethene	18		1.0	ug/L	20.0		89	74-119			

Matrix Spike (3C29025-MS1) Prepared: 03/29/2013 14:26 Analyzed: 04/01/2013 12:29

Source: C303708-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	111	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	97	81-134			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3C29025 - EPA 5030B_MS

Matrix Spike (3C29025-MS1) Continued Prepared: 03/29/2013 14:26 Analyzed: 04/01/2013 12:29

Source: C303708-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117			
Toluene	19		1.0	ug/L	20.0	0.14 U	95	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	92	74-119			

Matrix Spike Dup (3C29025-MSD1) Prepared: 03/29/2013 14:26 Analyzed: 04/01/2013 12:59

Source: C303708-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	94	75-133	16	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	94	81-134	3	17	
Chlorobenzene	17		1.0	ug/L	20.0	0.17 U	87	83-117	12	16	
Toluene	17		1.0	ug/L	20.0	0.14 U	87	71-118	9	17	
Trichloroethene	17		1.0	ug/L	20.0	0.15 U	83	74-119	11	22	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3C25028 - EPA 7470A

Blank (3C25028-BLK1) Prepared: 03/25/2013 10:13 Analyzed: 03/26/2013 13:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (3C25028-BS1) Prepared: 03/25/2013 10:13 Analyzed: 03/26/2013 13:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.64		0.200	ug/L	5.00		93	80-120			

Matrix Spike (3C25028-MS1) Prepared: 03/25/2013 10:13 Analyzed: 03/26/2013 14:00

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.21		0.200	ug/L	5.00	0.170 U	84	75-125			

Matrix Spike Dup (3C25028-MSD1) Prepared: 03/25/2013 10:13 Analyzed: 03/26/2013 14:03

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.36		0.200	ug/L	5.00	0.170 U	87	75-125	4	25	

Post Spike (3C25028-PS1) Prepared: 03/25/2013 10:13 Analyzed: 03/26/2013 14:05

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.75		0.200	ug/L	5.00	-0.0250	76	75-125			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 3C26014 - EPA 3005A

Blank (3C26014-BLK1) Prepared: 03/26/2013 10:10 Analyzed: 03/27/2013 12:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Iron	22.0	U	50.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Manganese	1.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Selenium	4.50	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (3C26014-BS1) Prepared: 03/26/2013 10:10 Analyzed: 03/27/2013 12:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	201		10.0	ug/L	200		101	80-120			
Barium	204		10.0	ug/L	200		102	80-120			
Beryllium	20.6		1.00	ug/L	20.0		103	80-120			
Cadmium	20.8		1.00	ug/L	20.0		104	80-120			
Chromium	205		10.0	ug/L	200		103	80-120			
Cobalt	208		10.0	ug/L	200		104	80-120			
Copper	205		10.0	ug/L	200		102	80-120			
Iron	994		50.0	ug/L	1000		99	80-120			
Lead	205		10.0	ug/L	200		102	80-120			
Manganese	205		10.0	ug/L	200		102	80-120			
Nickel	207		10.0	ug/L	200		103	80-120			
Selenium	209		10.0	ug/L	200		105	80-120			
Silver	205		10.0	ug/L	200		102	80-120			
Vanadium	200		10.0	ug/L	200		100	80-120			
Zinc	202		10.0	ug/L	200		101	80-120			

Matrix Spike (3C26014-MS1) Prepared: 03/26/2013 10:10 Analyzed: 03/27/2013 12:42

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	202		10.0	ug/L	200	2.80 U	101	75-125			
Barium	254		10.0	ug/L	200	48.2	103	75-125			
Beryllium	21.5		1.00	ug/L	20.0	0.785	104	75-125			
Cadmium	20.3		1.00	ug/L	20.0	0.360 U	102	75-125			
Chromium	207		10.0	ug/L	200	1.40 U	103	75-125			
Cobalt	214		10.0	ug/L	200	1.54	106	75-125			
Copper	204		10.0	ug/L	200	1.60 U	102	75-125			
Iron	5730		50.0	ug/L	1000	4530	120	75-125			
Lead	208		10.0	ug/L	200	1.90 U	104	75-125			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 3C26014 - EPA 3005A

Matrix Spike (3C26014-MS1) Continued Prepared: 03/26/2013 10:10 Analyzed: 03/27/2013 12:42

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Manganese	470		10.0	ug/L	200	262	104	75-125			
Nickel	207		10.0	ug/L	200	1.80 U	104	75-125			
Selenium	211		10.0	ug/L	200	4.50 U	105	75-125			
Silver	200		10.0	ug/L	200	1.90 U	100	75-125			
Vanadium	203		10.0	ug/L	200	2.34	100	75-125			
Zinc	216		10.0	ug/L	200	11.2	103	75-125			

Matrix Spike Dup (3C26014-MSD1) Prepared: 03/26/2013 10:10 Analyzed: 03/27/2013 12:43

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	209		10.0	ug/L	200	2.80 U	104	75-125	3	20	
Barium	255		10.0	ug/L	200	48.2	103	75-125	0.2	20	
Beryllium	21.5		1.00	ug/L	20.0	0.785	104	75-125	0.1	20	
Cadmium	20.2		1.00	ug/L	20.0	0.360 U	101	75-125	0.7	20	
Chromium	206		10.0	ug/L	200	1.40 U	103	75-125	0.5	20	
Cobalt	216		10.0	ug/L	200	1.54	107	75-125	0.9	20	
Copper	203		10.0	ug/L	200	1.60 U	102	75-125	0.2	20	
Iron	5590		50.0	ug/L	1000	4530	106	75-125	2	20	
Lead	212		10.0	ug/L	200	1.90 U	106	75-125	2	20	
Manganese	469		10.0	ug/L	200	262	104	75-125	0.07	20	
Nickel	207		10.0	ug/L	200	1.80 U	103	75-125	0.2	20	
Selenium	217		10.0	ug/L	200	4.50 U	109	75-125	3	20	
Silver	200		10.0	ug/L	200	1.90 U	100	75-125	0.4	20	
Vanadium	204		10.0	ug/L	200	2.34	101	75-125	0.3	20	
Zinc	216		10.0	ug/L	200	11.2	102	75-125	0.05	20	

Post Spike (3C26014-PS1) Prepared: 03/26/2013 10:10 Analyzed: 03/27/2013 12:45

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.199		0.0100	mg/L	0.200	-0.00388	102	80-120			
Barium	0.250		0.0100	mg/L	0.200	0.0482	101	80-120			
Beryllium	0.0215		0.00100	mg/L	0.0200	0.000785	104	80-120			
Cadmium	0.0198		0.00100	mg/L	0.0200	-0.000106	99	80-120			
Chromium	0.204		0.0100	mg/L	0.200	0.00121	101	80-120			
Cobalt	0.211		0.0100	mg/L	0.200	0.00154	105	80-120			
Copper	0.203		0.0100	mg/L	0.200	0.00139	101	80-120			
Iron	5.58		0.0500	mg/L	1.00	4.53	104	80-120			
Lead	0.204		0.0100	mg/L	0.200	-0.000596	102	80-120			
Manganese	0.469		0.0100	mg/L	0.200	0.262	104	80-120			
Nickel	0.203		0.0100	mg/L	0.200	0.000733	101	80-120			
Selenium	0.210		0.0100	mg/L	0.200	-0.00634	108	80-120			
Silver	0.204		0.0100	mg/L	0.200	0.00163	101	80-120			
Vanadium	0.202		0.0100	mg/L	0.200	0.00234	100	80-120			
Zinc	0.213		0.0100	mg/L	0.200	0.0112	101	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 3C26014 - EPA 3005A

Batch 3C26016 - EPA 3005A

Blank (3C26016-BLK1) Prepared: 03/26/2013 10:23 Analyzed: 04/01/2013 11:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (3C26016-BS1) Prepared: 03/26/2013 10:23 Analyzed: 04/01/2013 11:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	209		2.00	ug/L	200		105	80-120			
Thallium	212		1.00	ug/L	200		106	80-120			

Matrix Spike (3C26016-MS1) Prepared: 03/26/2013 10:23 Analyzed: 04/01/2013 11:14

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	205		2.00	ug/L	200	0.323	103	75-125			
Thallium	191		1.00	ug/L	200	0.110 U	96	75-125			

Matrix Spike Dup (3C26016-MSD1) Prepared: 03/26/2013 10:23 Analyzed: 04/01/2013 11:18

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	210		2.00	ug/L	200	0.323	105	75-125	2	20	
Thallium	197		1.00	ug/L	200	0.110 U	99	75-125	3	20	

Post Spike (3C26016-PS1) Prepared: 03/26/2013 10:23 Analyzed: 04/01/2013 11:22

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	210		2.00	ug/L	200	0.323	105	80-120			
Thallium	200		1.00	ug/L	200	0.0826	100	80-120			

Classical Chemistry Parameters - Quality Control

Batch 3C26001 - NO PREP

Blank (3C26001-BLK1) Prepared: 03/26/2013 07:14 Analyzed: 03/26/2013 09:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	12000	U	15000	ug/L							

LCS (3C26001-BS1) Prepared: 03/26/2013 07:14 Analyzed: 03/26/2013 09:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	97000		15000	ug/L	100000		97	80-120			

Matrix Spike (3C26001-MS1) Prepared: 03/26/2013 07:14 Analyzed: 03/26/2013 09:34

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 3C26001 - NO PREP

Matrix Spike (3C26001-MS1) Continued Prepared: 03/26/2013 07:14 Analyzed: 03/26/2013 09:34

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	110000		15000	ug/L	37800	69000	113	80-120			

Matrix Spike Dup (3C26001-MSD1) Prepared: 03/26/2013 07:14 Analyzed: 03/26/2013 09:35

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	110000		15000	ug/L	37800	69000	116	80-120	0.8	25	

Batch 3C26004 - NO PREP

Blank (3C26004-BLK1) Prepared & Analyzed: 03/26/2013 15:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10000	U	10000	ug/L							

LCS (3C26004-BS1) Prepared & Analyzed: 03/26/2013 15:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	990		10	mg/L	1000		99	90-110			

Duplicate (3C26004-DUP1) Prepared & Analyzed: 03/26/2013 15:08

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	270000		10000	ug/L		270000			0.7	10	

Batch 3C27008 - NO PREP

Blank (3C27008-BLK1) Prepared & Analyzed: 03/27/2013 10:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	**1500**	**J**	5000	ug/L							
Sulfate as SO4	40	U	5000	ug/L							

LCS (3C27008-BS1) Prepared & Analyzed: 03/27/2013 10:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	49000	B	5000	ug/L	50000		98	90-110			
Sulfate as SO4	47000		5000	ug/L	50000		94	90-110			

Matrix Spike (3C27008-MS1) Prepared & Analyzed: 03/27/2013 14:07

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	25000	B	5000	ug/L	20000	6600	93	90-110			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 3C27008 - NO PREP

Matrix Spike (3C27008-MS1) Continued Prepared & Analyzed: 03/27/2013 14:07

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	52000		5000	ug/L	20000	32000	103	90-110			

Matrix Spike Dup (3C27008-MSD1) Prepared & Analyzed: 03/27/2013 14:24

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	26000	B	5000	ug/L	20000	6600	95	90-110	2	10	
Sulfate as SO4	53000		5000	ug/L	20000	32000	104	90-110	0.7	10	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 3C27005 - EPA 3510C

Blank (3C27005-BLK1) Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 17:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	0.16	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*1.5*			*ug/L*	*2.00*		*77*	*68-139*			

LCS (3C27005-BS1) Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 18:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.6		0.50	ug/L	2.00		80	37-129			
Surrogate: 2,4-DCAA	*1.6*			*ug/L*	*2.00*		*82*	*68-139*			

Matrix Spike (3C27005-MS1) Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 18:36

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.2		0.50	ug/L	2.00	0.16 U	62	37-129			
Surrogate: 2,4-DCAA	*1.5*			*ug/L*	*2.00*		*76*	*68-139*			

Matrix Spike (3C27005-MS2) Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 19:52

Source: A301806-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	4.0		0.50	ug/L	2.00	0.16 U	198	37-129			QM-07
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*107*	*68-139*			

Matrix Spike Dup (3C27005-MSD1) Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 19:01

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.5		0.50	ug/L	2.00	0.16 U	73	37-129	16	33	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 3C27005 - EPA 3510C

Matrix Spike Dup (3C27005-MSD1) Continued Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 19:01

Source: C302337-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2,4-DCAA	*1.6*			*ug/L*	*2.00*		*78*	*68-139*			

Matrix Spike Dup (3C27005-MSD2) Prepared: 03/27/2013 03:30 Analyzed: 03/27/2013 20:18

Source: A301806-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	3.8		0.50	ug/L	2.00	0.16 U	189	37-129	4	33	QM-07
Surrogate: 2,4-DCAA	*1.9*			*ug/L*	*2.00*		*93*	*68-139*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Page 1 of 1

Client Name: Golder Associates, Inc. (GO007)	Project Number: 0839-6506012.100
Address: 5B Oak Branch Drive	Project Name/Desc: Henderson Co. LF C&D
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 852-4903 / Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): Daniel Childress, Golder	Billing Contact: Accounts Payable
Sampler(s) Signature: Daniel Childress	Site Location / Time Zone: Henderson Co, NC / EST

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C302337

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8151A Appendix 2	8260B Appendix 1, 8260B Extended	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Se,Tl,V,Zn	Alkalinity 310.2, Chloride 300, TDS SM2540C	Hg	Sulfate 300					Sample Comments
	4501-MW10	3/21/13	0830	G	GW	6	X	X	X	X	X	X					
	4501-MW11 (MS/MSD)	3/21/13	1330	G	GW	10	X	X	X	X	X	X					
	4501-MW12	3/21/13	0918	G	GW	6	X	X	X	X	X	X					
	4501-MW13	3/20/13	1101	G	GW	6	X	X	X	X	X	X					

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
KAY	3/6	Brit Fox	3/22/13 0900	John Kiry	3/22/13 10:10
		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Comments/Special Reporting Requirements
① Please provide "Level 2" data report.
② Unit rates per "Basic Ordering Agreement for Lab Services" dated 4/9/04 and 2012 Unit Price Sheet.
③ Est. Fee: $1400

Cooler #'s & Temps on Receipt: C-5 1.9°c

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

LOA per Brit Fox

Accepted by

GOLDER ASSOCIATES INC.
QUALITY ASSURANCE & QUALITY CONTROL
LABORATORY DATA REVIEW

Project Name: Henderson County C&D Landfill

Project Reference Number: 0839-650612.100

Sampling Event Date: March 20-21, 2013

Review Date: April 8, 2013 *Initials:* DC

Report #: C302337

Person(s) performing the review are to initial each item on this form as acknowledgement of data acceptance, or as acknowledgement of a review issue. In the case of the latter, a brief explanation should follow the applicable item.

Golder Associates Inc. has reviewed the laboratory certificates of analysis, chain-of-custody form, and laboratory provided sample group quality assurance and quality control data for the above referenced sample group to identify potential bias or inaccuracy, in general accordance with the following United States Environmental Protection Agency documents:

- Region III Modifications to Functional Guidelines for Organic Data Review Multi-Media, Multi-Concentration, September 1994;
- Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, April 1993; and
- Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, July 1998.

COMPLIANCE ANALYTE LIST(S) (check all that apply)

_ NC Closed Facility List (.500 Rules)

X NC C & D List (New Rules)

_ NC Appendix I

_ NC Appendix I + Detects

_ NC Appendix II

_ NC Subtitle D Leachate List

Other: _____

1.0 CHAIN OF CUSTODY (COC) REVIEW

DC COC was properly signed by all parties.

DC Correct project name and number are on the form.

DC Sample receipt condition at laboratory was acceptable.

DC Each sample and blank submitted for analysis appears in the report.

2.0 SAMPLE HOLDING TIMES

DC Holding times for extraction and/or analysis were met for each analytical Method (see below for reference).

Review Criteria		
Method	**Analytes**	**Holding Time**
SW-846 Method 8260 and 8011	VOCs	14 days
SW-846 Methods 8270, 8080, 8081, 8082, and 8151	SVOCs, PCBs, pesticides and herbicides	7 days for extraction, 40 days from extraction for analysis
SW-846 Methods 6000 and 7000 Series	Metals except mercury	6 months (no temperature requirements)
SW-846 Method 7470	Mercury	28 days
SW-846 Method 376.1	Sulfide	7 days
SW-846 Method 9010	Cyanide	14 days
EPA Method 300	Nitrate/Sulfate	48 hours/28 days
EPA Method 405.1	BOD	48 hours
EPA Method 410.4	COD	28 days
EPA Method 365.4	Phosphorous	28 days

3.0 LABORATORY QUALITY CONTROL REVIEW

DC Laboratory analyzed at least one internal blank for each method, where applicable.

DC Laboratory blank is interference-free.

- ***Chloride was detected in the Method Blank at a low-level concentration (less than half of the MRL). Detections of this analyte should be considered to have a possible high bias if the concentration in the associated sample is not greater than ten times that of the detection in the Method Blank.***

DC Surrogate recoveries are provided for each analytical method, where applicable.

DC Surrogate recoveries for each method are within the acceptable limits (i.e., at least 50% of the surrogates were within range).

DC MS/MSD/LCS data results are provided for each analytical method.

DC MS/MSD/LCS recoveries for each method are within the acceptable limits (i.e., at least 1 of the 3 were within range).

- ***The spike recovery of 1,1-Dichloroethene was outside of control limits for the 8260B MS or MSD samples. The QC batches were approved based on acceptable LCS recovery of this analyte.***
- ***The spike recovery of 2,4-D was outside of control limits for the 8151A MS and MSD samples. The QC batch was based on acceptable LCS recovery of this analyte.***

4.0 ANALYTE LISTS/METHODS

DC The proper number of constituents are present for each analyte list as identified above (including detects where applicable).

DC Proper EPA SW-846 analytical methods were used for analysis.

5.0 DATA REPORTING

DC All analytical reporting associated with the event was performed by the contracted lab.

DC Trip, field and/or equipment, and laboratory blank results have all been reported. All detects for blanks are listed below by constituent. All laboratory method blanks, if any, have been 'flagged' with a 'B' where detected in other samples as appropriate and a laboratory narrative was provided. If the

sample was flagged by the laboratory and is not within 5X of the concentration in the blank (or 10X for commonly detected laboratory contaminants-acetone, methylene chloride and phthalates), list below with explanation if flags should be removed. If flags need to be added for samples, also list below.

- ***Field Blank:***
  - ***Barium @ 1.34 ug/L (J)*** ****B-flag added for MW-10***
  - ***Silver @ 2.11 ug/L (J)***
  - ***Manganese @ 7.96 ug/L (J)*** ****B-flag added for MW-10***
  - ***THF @ 21 ug/L*** ****B-flag added for MW-12 and MW-13***

- ***Method Blank:***
  - ***Chloride @ 1500 ug/L (J)*** ****B-flags added for MW-10, MW-11, and MW-13***

DC It is clear from the laboratory report that samples have or have not been diluted during analysis, and if the samples have been diluted, the result is reported as a multiple of the dilution (e.g., a sample diluted 10x resulting in an analytical detection of 1.0 should be reported as 10). Those that have been diluted are listed below with the dilution factor.

DC The report provides the reporting limit for each constituent.

DC The results were reported at or below their proper reporting limits (i.e., MDLs with SWSLs reported). Those that are not reported correctly are listed below (by constituent) with the proper reporting limit listed beside them. State if the reporting limit error is due to dilutions.

DR No organic constituents were reported above their respective SWSLs, and no inorganic or organic constituents were reported above their respective NC 2L Drinking Water Standards/SWS GWPS in wells, or field/equipment/trip blanks, or above applicable surface water standards in surface water points.

- ***Cobalt (GWPS = 1 ug/L)***
  - ***MW-11 @ 1.54 ug/L (J)***
  - ***MW-13 @ 2.35 ug/L (J)***
- ***Vanadium (GWPS = 0.3 ug/L)***
  - ***MW-11 @ 2.34 ug/L (J)***
  - ***MW-13 @ 1.91 ug/L (J)***
- ***Iron (SWSL & NC2L = 300 ug/L)***
  - ***MW-11 @ 4530 ug/L***
  - ***MW-12 @ 594 ug/L***
  - ***MW-13 @ 2040 ug/L***
- ***Manganese (SWSL & NC2L = 50 ug/L)***
  - ***MW-11 @ 262 ug/L***
  - ***MW-12 @ 285 ug/L***
  - ***MW-13 @ 286 ug/L***
- ***Methylene Chloride (SWSL = 1 ug/L)***
  - ***MW-12 @ 1.3 ug/L***
- ***Trichlorofluoromethane (SWSL = 1 ug/L)***
  - ***MW-13 @ 1.1 ug/L***
- ***Vinyl Chloride (NC2L = 0.03 ug/L)***
  - ***MW-11 @ 0.51 ug/L (J)***
  - ***MW-12 @ 0.70 ug/L (J)***
  - ***MW-13 @ 0.51 ug/L (J)***

DC No inorganic and organic constituents were detected in a well or surface water point at quantified concentrations outside of their historical range (more than 5X previous concentrations or first-time detections).

n/a Other report issues/Communications with laboratory/etc.:

APPENDIX C

STATISTICAL EVALUATION WORKSHEETS & SUMMARY TABLE

Summary of Statistical Analysis for Samples from the MSW Landfill
Henderson County Landfill, Permit No. 45-01
Hendersonville, North Carolina

March 2013								
Detected Monitoring Constituent/ Analyte	Reporting Units	Groundwater Standard		Downgradient Monitoring Well	Constituent/ Analyte Concentration	Statistical Analysis		Statistical Determination
		NC 2L	GWPS			Interwell	Intrawell	
Barium	ug/L	700	--	MW-8	957	2587	--	Not SSI
Cadmium	ug/L	2	--	MW-7	3.3	1.57	22.0	Not SSI

Notes:
1. Statistical worksheets are provided as Appendix C.
2. ug/L = micrograms per liter
3. NC 2L = North Carolina 2L Groundwater Standard
4. GWPS = North Carolina Solid Waste Section Groundwater Protection Standard
5. SSI = statistically significant increase
6. North Carolina Appendix I Inorganic constituents detected above their respective Solid Waste Section Reporting Limit and Groundwater Standard in samples from downgradient monitoring wells were statistically evaluated.

Project Name: Henderson County Landfill
Project No: 0839-650612.100
Date: 4/18/13

Analyte: Barium

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	12/05/94	MW-5	134		100
2	02/14/95	MW-5	ND		100
3	04/03/95	MW-5	174		100
4	10/30/95	MW-5	348		100
5	04/08/96	MW-5	199		100
6	10/24/96	MW-5	300		100
7	04/15/97	MW-5	180		100
8	10/29/97	MW-5	200		100
9	05/14/98	MW-5	ND		100
10	10/11/98	MW-5	ND		100
11	06/04/99	MW-5	ND		100
12	10/29/99	MW-5	ND		100
13	04/20/00	MW-5	ND		100
14	11/07/00	MW-5	ND		100
15	05/15/01	MW-5	ND		100
16	10/16/01	MW-5	ND		100
17	04/24/02	MW-5	ND		100
18	10/01/02	MW-5	ND		100
19	04/09/03	MW-5	ND		100
20	10/20/03	MW-5	ND		100
21	03/24/04	MW-5	ND		100
22	10/27/04	MW-5	ND		100
23	05/25/05	MW-5	ND		100
24	10/04/05	MW-5	ND		100
25	04/25/06	MW-5	ND		100
26	10/04/06	MW-5	ND		100
27	03/21/07	MW-5	47.5	J	100
28	10/02/07	MW-5	135		100
29	04/03/08	MW-5	87.8	J	100
30	10/29/08	MW-5	69.9	J	100
31	03/24/09	MW-5	26.2	J	100
32	09/22/09	MW-5	31.5	J	100
33	03/22/10	MW-5	28.2	J	100
34	09/23/10	MW-5	34.3	J	100
35	03/16/11	MW-5	71.3	J	100
36	09/21/11	MW-5	40.2	J	100
37	03/21/12	MW-5	60.8	J	100
38	09/20/12	MW-5	28.9	J	100
39	03/20/13	MW-5	51.9	J	100

Number of Data	39
Number of Truncated Data	19
Percentage of Truncated Data	49%

Upper Prediction Limit: **2587** ug/L

Project Name: Henderson County Landfill
Project No: 0839-650612.100
Date: 4/18/13

Probability Plots to determine the distribution of Barium

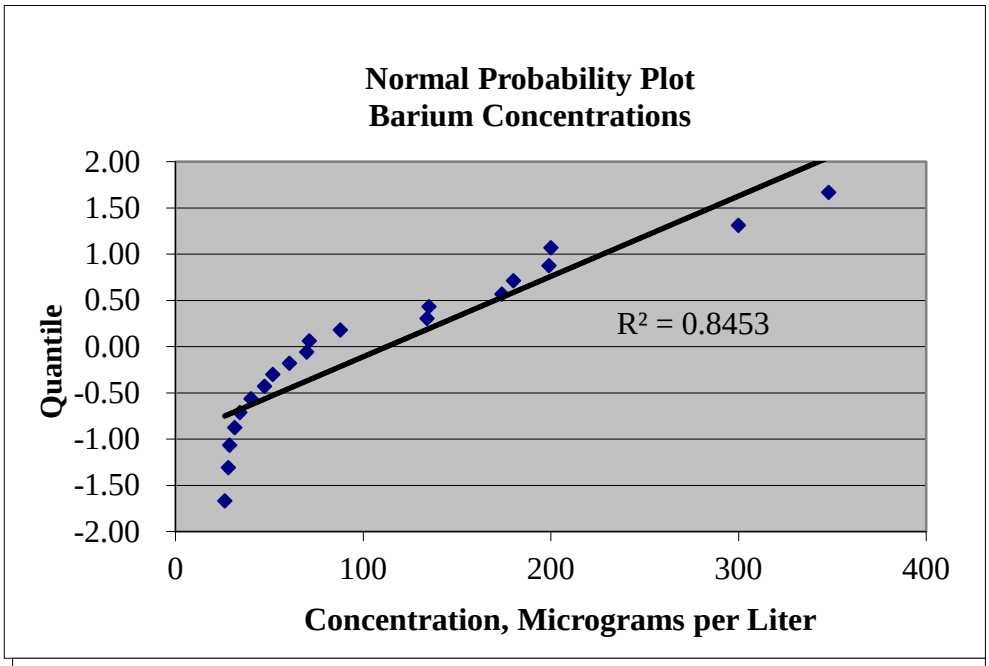
Complete the following table where:

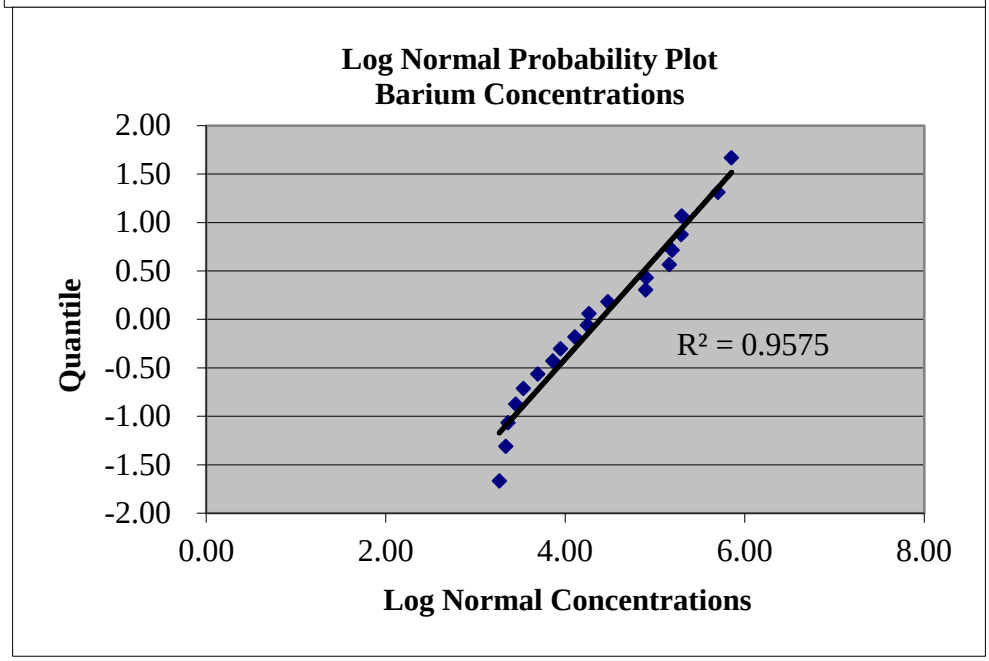
i = ordered value of sample, arranged from smallest to largest
X(i) = sample values arranged from smallest to largest
LN[X(i)] = Natural Log Value of sample concentrations arranged from smallest to largest
[i/(n+1)] = Cumulative probability
n = number of samples = 20

X(i)	LN[X(i)]	i	Rank	[Rank/(n+1)]	Quantiles
26.2	3.27	1	1	0.048	-1.67
28.2	3.34	2	2	0.095	-1.31
28.9	3.36	3	3	0.143	-1.07
31.5	3.45	4	4	0.190	-0.88
34.3	3.54	5	5	0.238	-0.71
40.2	3.69	6	6	0.286	-0.57
47.5	3.86	7	7	0.333	-0.43
51.9	3.95	8	8	0.381	-0.30
60.8	4.11	9	9	0.429	-0.18
69.9	4.25	10	10	0.476	-0.06
71.3	4.27	11	11	0.524	0.06
87.8	4.48	12	12	0.571	0.18
134	4.90	13	13	0.619	0.30
135	4.91	14	14	0.667	0.43
174	5.16	15	15	0.714	0.57
180	5.19	16	16	0.762	0.71
199	5.29	17	17	0.810	0.88
200	5.30	18	18	0.857	1.07
300	5.70	19	19	0.905	1.31
348	5.85	20	20	0.952	1.67

Project Name: Henderson County Landfill
Project No: 0839-650612.100
Date: 04/18/13

Probability Plots to determine the distribution of Barium





Project Name: Henderson County Landfill
Project No: 0839-650612.100
Date: 4/18/13

Determination of reported background value as an outlier

Analyte: Barium

Background Data

Sample No.	Sample Date	Location	Concentration (ug/l)		Quantitation Limit (ug/l)
1	12/05/94	MW-5	134		100
2	02/14/95	MW-5	ND		100
3	04/03/95	MW-5	174		100
4	10/30/95	MW-5	348		100
5	04/08/96	MW-5	199		100
6	10/24/96	MW-5	300		100
7	04/15/97	MW-5	180		100
8	10/29/97	MW-5	200		100
9	05/14/98	MW-5	ND		100
10	10/11/98	MW-5	ND		100
11	06/04/99	MW-5	ND		100
12	10/29/99	MW-5	ND		100
13	04/20/00	MW-5	ND		100
14	11/07/00	MW-5	ND		100
15	05/15/01	MW-5	ND		100
16	10/16/01	MW-5	ND		100
17	04/24/02	MW-5	ND		100
18	10/01/02	MW-5	ND		100
19	04/09/03	MW-5	ND		100
20	10/20/03	MW-5	ND		100
21	03/24/04	MW-5	ND		100
22	10/27/04	MW-5	ND		100
23	05/25/05	MW-5	ND		100
24	10/04/05	MW-5	ND		100
25	04/25/06	MW-5	ND		100
26	10/04/06	MW-5	ND		100
27	03/21/07	MW-5	47.5	J	100
28	10/02/07	MW-5	135		100
29	04/03/08	MW-5	87.8	J	100
30	10/29/08	MW-5	69.9	J	100
31	03/24/09	MW-5	26.2	J	100
32	09/22/09	MW-5	31.5	J	100
33	03/22/10	MW-5	28.2	J	100
34	09/23/10	MW-5	34.3	J	100
35	03/16/11	MW-5	71.3	J	100
36	09/21/11	MW-5	57.3	J	100
37	03/21/12	MW-5	60.8	J	100
38	09/20/12	MW-5	28.9	J	100
39	03/20/13	MW-5	2741	J	100
		mean =	248		
		STD =	594.1		

Note: All concentrations are micrograms per liter

Using the data listed above, form the statisitc Tn:

Tn = (Xn - mean) / STD

where:	Xn =	largest observed sample value
	mean =	mean of the background values
	STD =	standard deviation of the background values

For	Xn =	2741
	mean =	248
	STD =	594.1
	Tn =	**4.20**

From Table 8 included in the Staistical Analysis of Groundwater Monitoring Data at RCRA Facilities - Interim Final Guidance, the critical value for the given sample group is

Number of samples =	39
Tc =	**2.857**

Since Tc<Tn, the sample result is considered to be an outlier

Project Name: Henderson County Landfill
Project No: 0839-650612.100
Date: 4/18/13

Determination of reported background value as an outlier

Analyte: Barium

Background Data

Sample No.	Sample Date	Location	ln(Concentration) (ug/l)		Quantitation Limit (ug/l)
1	12/05/94	MW-5	4.89784		100
2	02/14/95	MW-5	ND		100
3	04/03/95	MW-5	5.15906		100
4	10/30/95	MW-5	5.85220		100
5	04/08/96	MW-5	5.29330		100
6	10/24/96	MW-5	5.70378		100
7	04/15/97	MW-5	5.19296		100
8	10/29/97	MW-5	5.29832		100
9	05/14/98	MW-5	ND		100
10	10/11/98	MW-5	ND		100
11	06/04/99	MW-5	ND		100
12	10/29/99	MW-5	ND		100
13	04/20/00	MW-5	ND		100
14	11/07/00	MW-5	ND		100
15	05/15/01	MW-5	ND		100
16	10/16/01	MW-5	ND		100
17	04/24/02	MW-5	ND		100
18	10/01/02	MW-5	ND		100
19	04/09/03	MW-5	ND		100
20	10/20/03	MW-5	ND		100
21	03/24/04	MW-5	ND		100
22	10/27/04	MW-5	ND		100
23	05/25/05	MW-5	ND		100
24	10/04/05	MW-5	ND		100
25	04/25/06	MW-5	ND		100
26	10/04/06	MW-5	ND		100
27	03/21/07	MW-5	3.86073	J	100
28	10/02/07	MW-5	4.90527		100
29	04/03/08	MW-5	4.47506	J	100
30	10/29/08	MW-5	4.24707	J	100
31	03/24/09	MW-5	3.26576	J	100
32	09/22/09	MW-5	3.44999	J	100
33	03/22/10	MW-5	3.33932	J	100
34	09/23/10	MW-5	3.53515	J	100
35	03/16/11	MW-5	4.26690	J	100
36	09/21/11	MW-5	3.69387	J	100
37	03/21/12	MW-5	4.10759	J	100
38	09/20/12	MW-5	3.36384	J	100
39	03/20/13	MW-5	3.94932	J	100
		mean =	4.39287		
		STD =	0.83921		

Note: All concentrations are micrograms per liter

Using the data listed above, form the statisitc Tn:

Tn = (Xn - mean) / STD

where:	Xn =	largest observed sample value
	mean =	mean of the background values
	STD =	standard deviation of the background values

For	Xn =	5.85220
	mean =	4.39287
	STD =	0.83921
	Tn =	**1.739**

From Table 8 included in the Staistical Analysis of Groundwater Monitoring Data at RCRA Facilities - Interim Final Guidance, the critical value for the given sample group is

Number of samples =	39
Tc =	**2.857**

Since Tc>Tn, the sample result is not considered to be an outlier

Project Name: Henderson County Landfill
Project No: 0839-650612.100
Date: 4/18/13

Shapiro Wilk Test Statistic (W) for normality of total Barium

Complete the following table where

i = ordered value of sample, arranged from smallest to largest
X(i) = sample values arranged from smallest to largest
X(n-i+1) = sample values arranged from largest to smallest
A(n-i+1) = coefficient from table A-1, Statistical Analysis of Ground-Water Data at RCRA Facilities
B(i) = summation of (X(n-i+1)-X(i))A(n-i+1)

i	X(i)	X(n-i+1)	X(n-i+1) - X(i)	A(n-i+1)	B(i)
1	26.20	348.00	321.8	0.4734	152.34
2	28.20	300.00	271.8	0.3211	87.27
3	28.90	200.00	171.1	0.2565	43.89
4	31.50	199.00	167.5	0.2085	34.92
5	34.30	180.00	145.7	0.1686	24.57
6	40.20	174.00	133.8	0.1334	17.85
7	47.50	135.00	87.5	0.1013	8.86
8	51.90	134.00	82.1	0.0711	5.84
9	60.80	87.80	27	0.0422	1.14
10	69.90	71.30	1.4	0.014	0.02
11	71.30	69.90			
12	87.80	60.80			
13	134.00	51.90			
14	135.00	47.50			
15	174.00	40.20			
16	180.00	34.30			
17	199.00	31.50			
18	200.00	28.90			
19	300.00	28.20			
20	348.00	26.20			

The test statistic W can be found using:

W = SQR[B/(SD x SQRT(n-1))]

where:

B =	summation of (X(n-i+1)-X(i))A(n-i+1)	=	376.70
SD =	standard deviation of the data group	=	94.37
n =	number of samples	=	20

W = 0.839

Compare this value to the critical value in Table A-2 of Statistical Analysisof Ground-Water Monitoring Data at RCRA Facilities, Addend -20
July, 1992, to determine if the data is normally distributed.

From Table A-2 with (n) samples and a 95% 2741

W(crit) = 0.905
and the calculated W = 0.839

Therefore the data is Non Normal

Project Name: Henderson County Landfill
Project No: 0839-650612.100
Date: 4/18/13

Shapiro Wilk Test Statistic (W) for log normality of Barium

Complete the following table where

i = ordered value of sample, arranged from smallest to largest
X(i) = sample values arranged from smallest to largest
X(n-i+1) = sample values arranged from largest to smallest
A(n-i+1) = coefficient from table A-1, Statistical Analysis of Ground-Water Data at RCRA Facilities
B(i) = summation of (X(n-i+1)-X(i))A(n-i+1)

i	X(i)	X(n-i+1)	X(n-i+1) - X(i)	A(n-i+1)	B(i)
1	3.27	5.85	2.5864	0.4734	1.2244
2	3.34	5.70	2.3645	0.3211	0.7592
3	3.36	5.30	1.9345	0.2565	0.4962
4	3.45	5.29	1.8433	0.2085	0.3843
5	3.54	5.19	1.6578	0.1686	0.2795
6	3.69	5.16	1.4652	0.1334	0.1955
7	3.86	4.91	1.0445	0.1013	0.1058
8	3.95	4.90	0.9485	0.0711	0.0674
9	4.11	4.48	0.3675	0.0422	0.0155
10	4.25	4.27	0.0198	0.0140	0.0003
11	4.27	4.25	-0.0198	0.0000	0.0000
12	4.48	4.11			
13	4.90	3.95			
14	4.91	3.86			
15	5.16	3.69			
16	5.19	3.54			
17	5.29	3.45			
18	5.30	3.36			
19	5.70	3.34			
20	5.85	3.27			

The test statistic W can be found using:

W = SQR((B/SD x SQRT(n-1))

where:

B =	summation of (X(n-i+1)-X(i))A(n-i+1)	=	3.5282
SD =	standard deviation of the data group	=	0.8392
n =	number of samples	=	20

W = 0.9303

Compare this value to the critical value in Table A-2 of Statistical Analysisof Ground-Water Monitoring Data at RCRA Facilities, Adden -20
July, 1992, to determine if the data is normally distributed.

From Table A-2 with (n) samples and a 95 2741

W(crit) = 0.905
and the calculated W = 0.930

Therefore the data set is Log Normal

Project Name: Henderson County Landfill
Project No: 0839-650612.100
Date: 4/18/13

Aitchison's Adjustment for Barium

Background Values (positive detects only)

Sample No.	Sample Date	Location	Concentration (ug/l)	ln(conc)
1	12/5/94	MW-5	134	4.90
2	2/14/95	MW-5	ND	ND
3	4/3/95	MW-5	174	5.16
4	10/30/95	MW-5	348	5.85
5	4/8/96	MW-5	199	5.29
6	10/24/96	MW-5	300	5.70
7	4/15/97	MW-5	180	5.19
8	10/29/97	MW-5	200	5.30
9	5/14/98	MW-5	ND	ND
10	10/11/98	MW-5	ND	ND
11	6/4/99	MW-5	ND	ND
12	10/29/99	MW-5	ND	ND
13	4/20/00	MW-5	ND	ND
14	11/7/00	MW-5	ND	ND
15	5/15/01	MW-5	ND	ND
16	10/16/01	MW-5	ND	ND
17	4/24/02	MW-5	ND	ND
18	10/1/02	MW-5	ND	ND
19	4/9/03	MW-5	ND	ND
20	10/20/03	MW-5	ND	ND
21	3/24/04	MW-5	ND	ND
22	10/27/04	MW-5	ND	ND
23	5/25/05	MW-5	ND	ND
24	10/4/05	MW-5	ND	ND
25	4/25/06	MW-5	ND	ND
26	10/4/06	MW-5	ND	ND
27	3/21/07	MW-5	47.5	3.86
28	10/2/07	MW-5	135	4.91
29	4/3/08	MW-5	87.8	4.48
30	10/29/08	MW-5	69.9	4.25
31	3/24/09	MW-5	26.2	3.27
32	9/22/09	MW-5	31.5	3.45
33	3/22/10	MW-5	28.2	3.34
34	9/23/10	MW-5	34.3	3.54
35	3/16/11	MW-5	71.3	4.27
36	9/21/11	MW-5	40.2	3.69
37	3/21/12	MW-5	25.2	3.23
38	9/20/12	MW-5	28.9	3.36
39	3/20/13	MW-5	51.9	3.95

Mean of detected values = 4.35
Standard Deviation of detected values = 0.877

The adjusted mean can be found using

$$M(a) = (1-d/n) \times M$$

where:	d =	number non- detected values	=	19
	n =	total number samples	=	39
	M =	mean detected values	=	4.35
		M(a)	**=**	**2.23**

The adjusted standard deviation squared may be found using

$$STD(a) = (n-(d+1)S)/n-1) + d(n-d)MM/n(n-1)$$

where:	n =	total number samples	=	39
	d =	number non-detected values	=	19
	S =	std deviation of detected values squared	=	0.770
	MM =	mean of detected values squared	=	18.9
		STD(a)	=	5.23

and the adjusted standard deviation is then

S(a) = SQRT(STD(a)) = 2.29

Project Name: Henderson County Landfill
Project No: 0839-650612.100
Date: 4/18/13

Parametric Prediction Interval for Aitchison's adjusted data

Analyte: Barium

Background Data

Sample No.	Sample Date	Location	Concentration (ug/l)	Quantitation Limit (ug/l)	ln(Cocentration)
1	12/5/94	MW-5	134	100	4.90
2	2/14/95	MW-5	ND	100	ND
3	4/3/95	MW-5	174	100	5.16
4	10/30/95	MW-5	348	100	5.85
5	4/8/96	MW-5	199	100	5.29
6	10/24/96	MW-5	300	100	5.70
7	4/15/97	MW-5	180	100	5.19
8	10/29/97	MW-5	200	100	5.30
9	5/14/98	MW-5	ND	100	ND
10	10/11/98	MW-5	ND	100	ND
11	6/4/99	MW-5	ND	100	ND
12	10/29/99	MW-5	ND	100	ND
13	4/20/00	MW-5	ND	100	ND
14	11/7/00	MW-5	ND	100	ND
15	5/15/01	MW-5	ND	100	ND
16	10/16/01	MW-5	ND	100	ND
17	4/24/02	MW-5	ND	100	ND
18	10/1/02	MW-5	ND	100	ND
19	4/9/03	MW-5	ND	100	ND
20	10/20/03	MW-5	ND	100	ND
21	3/24/04	MW-5	ND	100	ND
22	10/27/04	MW-5	ND	100	ND
23	5/25/05	MW-5	ND	100	ND
24	10/4/05	MW-5	ND	100	ND
25	4/25/06	MW-5	ND	100	ND
26	10/4/06	MW-5	ND	100	ND
27	3/21/07	MW-5	47.5	100	3.86
28	10/2/07	MW-5	135	100	4.91
29	4/3/08	MW-5	87.8	100	4.48
30	10/29/08	MW-5	69.9	100	4.25
31	3/24/09	MW-5	26.2	100	3.27
32	9/22/09	MW-5	31.5	100	3.45
33	3/22/10	MW-5	28.2	100	3.34
34	9/23/10	MW-5	34.3	100	3.54
35	3/16/11	MW-5	71.3	100	4.27
36	9/21/11	MW-5	40.2	100	3.69
37	3/21/12	MW-5	60.8	100	4.11
38	9/20/12	MW-5	44.8	100	3.80
39	3/20/13	MW-5	51.9	100	3.95

Note: All sample concentrations are micrograms per liter

The background mean and standard deviation were modified using Aitchison's Adjustment.
The adjusted mean and standard deviation are as follows:

the ln(adjusted mean) and l(standard deviation) are

ln(adjusted mean)	=	2.23
ln(adjusted standard deviation)	=	2.29

Using the background data, the upper Prediction Limit can be determined using:

Upper Prediction Limit = (Mean Conc) + t(n-1,k,.95) x (Std Dev) x SQRT(1/m+1/n)

where:	Mean Conc =	mean concentration background samples
	t(n-1k,.95) =	Bonferroni t-statistic from table 1, with
	n-1 =	degrees of freedom (number of samples - 1)
	k =	number of downgradient samples per event
	.95 =	confidence interval
	Std Dev =	standard deviation of background samples
	m =	number independent samples from each sampling point
	n =	number of background samples

For:	Mean Conc =	2.23	
	Std Dev =	2.29	
	t(n-1,k,.95)*sqrt(1/m+1/n) =	2.46	
	k =	7	
	m =	1	
	n =	39	
	Antilog UPL =	**2587**	ug/L

Project Name: Henderson County Landfill
Project No: 0839-650612.100
Date: 4/18/13

Parametric Tolerance Interval for Aitchison's adjusted data

Analyte: Barium

Background Data

Sample No.	Sample Date	Location	Concentration (ug/l)	Quantitation Limit (ug/l)	ln(Concentration)
1	12/5/94	MW-5	134	100	4.90
2	2/14/95	MW-5	ND	100	ND
3	4/3/95	MW-5	174	100	5.16
4	10/30/95	MW-5	348	100	5.85
5	4/8/96	MW-5	199	100	5.29
6	10/24/96	MW-5	300	100	5.70
7	4/15/97	MW-5	180	100	5.19
8	10/29/97	MW-5	200	100	5.30
9	5/14/98	MW-5	ND	100	ND
10	10/11/98	MW-5	ND	100	ND
11	6/4/99	MW-5	ND	100	ND
12	10/29/99	MW-5	ND	100	ND
13	4/20/00	MW-5	ND	100	ND
14	11/7/00	MW-5	ND	100	ND
15	5/15/01	MW-5	ND	100	ND
16	10/16/01	MW-5	ND	100	ND
17	4/24/02	MW-5	ND	100	ND
18	10/1/02	MW-5	ND	100	ND
19	4/9/03	MW-5	ND	100	ND
20	10/20/03	MW-5	ND	100	ND
21	3/24/04	MW-5	ND	100	ND
22	10/27/04	MW-5	ND	100	ND
23	5/25/05	MW-5	ND	100	ND
24	10/4/05	MW-5	ND	100	ND
25	4/25/06	MW-5	ND	100	ND
26	10/4/06	MW-5	ND	100	ND
27	3/21/07	MW-5	47.5	100	3.86
28	10/2/07	MW-5	135	100	4.91
29	4/3/08	MW-5	87.8	100	4.48
30	10/29/08	MW-5	69.9	100	4.25
31	3/24/09	MW-5	26.2	100	3.27
32	9/22/09	MW-5	31.5	100	3.45
33	3/22/10	MW-5	28.2	100	3.34
34	9/23/10	MW-5	34.3	100	3.54
35	3/16/11	MW-5	71.3	100	4.27
36	9/21/11	MW-5	40.2	100	3.69
37	3/21/12	MW-5	60.8	100	4.11
38	9/20/12	MW-5	44.8	100	3.80
39	3/20/13	MW-5	51.9	100	3.95

Note: All sample concentrations are micrograms 2741

The background mean and standard deviation were modified using Aitchison's Adjustment.
The adjusted mean and standard deviation are as follows:

The ln(adjusted mean) and ln(standard deviation) are

ln(adjusted mean) =	2.23
ln(adjusted standard deviation) =	2.29

Using the background data, the upper Tolerance Limit can be determined using

Upper Tolerance Limit = (Mean Concentration) + K x (Standard Deviation Samples)

where: K = factor for constructing one sided normal tolerance limit taken from table 4-2, page 87, Statistical Methods for Groundwater Monitoring, Gibbons, 1994

n = number of background samples

For: K = 2.134

n = 39

UTL = 1227 ug/L

Project Name: Henderson County Landfill
Project No: 0839-650612.100
Date: 4/18/13

Analyte: Cadmium

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	12/05/94	MW-5	ND		1
2	02/14/95	MW-5	ND		1
3	04/03/95	MW-5	ND		1
4	10/30/95	MW-5	ND		1
5	04/08/96	MW-5	ND		1
6	10/24/96	MW-5	ND		1
7	04/15/97	MW-5	ND		1
8	10/29/97	MW-5	ND		1
9	05/14/98	MW-5	ND		1
10	10/11/98	MW-5	ND		1
11	06/04/99	MW-5	ND		1
12	10/29/99	MW-5	ND		1
13	04/20/00	MW-5	ND		1
14	11/07/00	MW-5	ND		1
15	05/15/01	MW-5	ND		1
16	10/16/01	MW-5	ND		1
17	04/24/02	MW-5	ND		1
18	10/01/02	MW-5	ND		1
19	04/09/03	MW-5	ND		1
20	10/20/03	MW-5	ND		1
21	03/24/04	MW-5	ND		1
22	10/27/04	MW-5	ND		1
23	05/25/05	MW-5	ND		1
24	10/04/05	MW-5	ND		1
25	04/25/06	MW-5	ND		1
26	10/04/06	MW-5	ND		1
27	03/21/07	MW-5	1.57	J	1
28	10/02/07	MW-5	ND		1
29	04/03/08	MW-5	ND		1
30	10/29/08	MW-5	ND		1
31	03/24/09	MW-5	ND		1
32	09/22/09	MW-5	0.667	J	1
33	03/22/10	MW-5	ND		1
34	09/23/10	MW-5	ND		1
35	03/16/11	MW-5	ND		1
36	09/21/11	MW-5	ND		1
37	03/21/12	MW-5	ND		1
38	09/20/12	MW-5	ND		1
39	03/20/13	MW-5	ND		1

Number of Data	39
Number of Truncated Data	37
Percentage of Truncated Data	95%

Nonparametric Prediction Interval: **1.57** ug/L

Golder Associates

Project Name: Henderson County Landfill
Project No: 0839-650612.100
Date: 4/18/13

Analyte: Cadmium (Intrawell MW-7)

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	12/05/94	MW-7	22		1
2	02/14/95	MW-7	3		1
3	04/03/95	MW-7	1		1
4	10/30/95	MW-7	ND		1
5	04/08/96	MW-7	ND		1
6	10/24/96	MW-7	ND		1
7	04/15/97	MW-7	ND		1
8	10/29/97	MW-7	ND		1
9	05/14/98	MW-7	ND		1
10	10/11/98	MW-7	ND		1
11	06/04/99	MW-7	ND		1
12	10/29/99	MW-7	ND		1
13	04/20/00	MW-7	1.7		1
14	11/07/00	MW-7	ND		1
15	05/15/01	MW-7	ND		1
16	04/24/02	MW-7	ND		1
17	10/01/02	MW-7	ND		1
18	04/09/03	MW-7	ND		1
19	10/20/03	MW-7	ND		1
20	03/24/04	MW-7	ND		1
21	10/27/04	MW-7	1.28		1
22	05/25/05	MW-7	1.02		1
23	10/04/05	MW-7	1.39		1
24	04/25/06	MW-7	ND		1
25	10/04/06	MW-7	1.27		1
26	03/21/07	MW-7	2.35	J	1
27	10/02/07	MW-7	1.63		1
28	04/03/08	MW-7	0.9	J	1
29	10/29/08	MW-7	0.43	J	1
30	03/24/09	MW-7	0.18	J	1
31	09/22/09	MW-7	0.659	J	1
32	03/22/10	MW-7	ND		1
33	09/23/10	MW-7	0.493	J	1
34	03/16/11	MW-7	ND		1
35	09/21/11	MW-7	0.666	J	1
36	03/21/12	MW-7	0.673	J	1
37	09/20/12	MW-7	0.655	J	1

Number of Data	37
Number of Truncated Data	19
Percentage of Truncated Data	51%

Nonparametric Prediction Interval: **22.0** ug/L

At Golder Associates we strive to be the most respected global group of companies specializing in ground engineering and environmental services. Employee owned since our formation in 1960, we have created a unique culture with pride in ownership, resulting in long-term organizational stability. Golder professionals take the time to build an understanding of client needs and of the specific environments in which they operate. We continue to expand our technical capabilities and have experienced steady growth with employees now operating from offices located throughout Africa, Asia, Australasia, Europe, North America and South America.

Africa	+ 27 11 254 4800
Asia	+ 852 2562 3658
Australasia	+ 61 3 8862 3500
Europe	+ 356 21 42 30 20
North America	+ 1 800 275 3281
South America	+ 55 21 3095 9500

solutions@golder.com
www.golder.com

Golder Associates NC, Inc.
5B Oak Branch Drive
Greensboro, NC 27407 USA
(336) 852-4903 - Phone
(336) 852-4904 - Fax

Golder Associates