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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):

S&ME, Inc. (consultant)

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

Name: Sam Watts Phone: 919-801-4920

E-mail: swatts@smeinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Edgecombe County Landfill	2872 Colonial Road Tarboro, NC 27886	33-01	.1600	January 21 and 22, 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.

Samuel P. Watts — Consultant / Geologist — (919) 872-2660

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

Signature — 4/24/13 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1806 GEOLOGIST SAMUEL P. WATTS

S&ME, Inc., 3201 Spring Forest Rd., Raleigh, NC 27616

Facility Representative Address

F-0176

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

Revised 6/2009

April 25, 2013

Edgecombe County
Administration Building, Box 10
Tarboro, North Carolina 27886

Attention: Mr. Mike Cummings, Edgecombe County Solid Waste Manager

Reference: **Environmental Compliance Monitoring Report – January 2013**
Edgecombe County Landfill (Permit No. 33-01)
Tarboro, North Carolina
S&ME Project No. 1054-07-238E

Dear Mr. Cummings:

S&ME, Inc. (S&ME) is pleased to submit this report documenting the environmental compliance monitoring conducted on January 21 and 22, 2013, at the Edgecombe County Landfill located in Tarboro, North Carolina. These services have been performed in general accordance with S&ME Proposal No. P091-11V, dated June 30, 2011. A compact disk (CD) containing an electronic copy of this report in portable document format (.pdf) and **Table 3** in Excel spreadsheet format (.xls) is included in **Appendix II**. One copy of this report is attached for your file, and one copy was delivered on your behalf directly to the North Carolina Department of Environment and Natural Resources - Division of Waste Management (NCDENR-DWM), Solid Waste Section (Section).

According to the *Corrective Action Plan Review* letter, dated January 16, 2009, NCDENR-DWM Section recommends that semiannual sampling be continued at the site for analytes on the Appendix I constituent list. S&ME has also submitted *the Baseline Water Quality and MNA Corrective Action Evaluation Report* and recommended a reduction in analysis of targeted analytes and select monitor well locations for future MNA parameters.

S&ME appreciates the opportunity to provide environmental services to Edgecombe County. Please call us at (919) 872-2660 if you have any questions or comments, or if we can be of further assistance.

Sincerely,
S&ME, Inc.

M. Scott Young
Geologic Staff Professional

Samuel P. Watts, P.G.
Senior Project Manager

Attachment: *January 2013 - Environmental Compliance Monitoring Report*, dated April 25, 2013

FORTY YEARS OF ENGINEERING INTEGRITY

JANUARY 2013
ENVIRONMENTAL COMPLIANCE MONITORING REPORT
EDGECOMBE COUNTY LANDFILL
(PERMIT # 33-01)
TARBORO, NORTH CAROLINA

S&ME Project No. 1054-07-238E

Prepared for:

Edgecombe County
Solid Waste Department
PO Box 10
Tarboro, NC 27886

Prepared by:

S&ME, Inc.
3201 Spring Forest Road
Raleigh, North Carolina 27616

April 25, 2013

M. Scott Young
Geologic Staff Professional

Samuel P. Watts, P.G.
Senior Project Manager

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Appendix III: Groundwater Velocity Calculations
Appendix IV: Time Series Graphs for Monitor Wells

1.0 PROJECT INFORMATION AND STATUS

1.1 Introduction

Edgecombe County currently operates a solid waste facility on a tract of land located off of Colonial Road (S.R. 1601) in Edgecombe County, south of Tarboro, North Carolina (**Figure 1**). In general, the solid waste facility includes a municipal solid waste (MSW) transfer facility; a construction & demolition (C&D) debris landfill unit; white goods and pallets storage area; soil borrow pits; and various operational buildings. The C&D landfill unit is operated over an existing closed MSW landfill, in general accordance with North Carolina Department of Environment and Natural Resources Division of Waste Management (NCDENR-DWM) Permit No. 33-01. Edgecombe County continues to perform groundwater and surface water monitoring on a semiannual basis to comply with the requirements of North Carolina Solid Waste Management Rules (Solid Waste Rules), 15A NCAC 13B. S&ME has prepared this report on behalf of Edgecombe County to present the results of the January 2013 monitoring event as required by § .0600 and .1632 of the Solid Waste Rules.

The January 2013 monitoring event included sampling for groundwater quality from the following wells which comprise the groundwater monitoring network:

Water Quality Monitoring Network Groundwater Sampling Locations

Background Monitor Wells	Compliance Monitor Wells	
MW-3B	MW-5	MW-13
MW-4	MW-6	MW-14
MW-9	MW-7A	MW-15
	MW-12	MW-16

Jerry's Creek is the surface water feature located on the northern boundary of the landfill where two surface water samples (upstream and downstream) are typically collected to review surface water quality (**Figure 2**).

1.2 Background

Groundwater has been monitored at the landfill facility since 1994 in accordance with § .1632 of the Solid Waste Rules under the landfill's *Water Quality Monitoring Plan* (WQMP). The WQMP was originally written in September 1994, revised in June 2008 and again in January 2010. Current groundwater monitoring at the landfill is conducted in general confirmation with the January 2010 WQMP.

Volatile organic compounds (VOCs) and inorganic constituents (metals) have been detected above North Carolina groundwater protection standards in groundwater samples collected from groundwater compliance monitoring points at Edgecombe County Landfill. Previous statistical evaluation of the groundwater monitoring data indicated

that a release of VOCs and metals had occurred. In accordance with NCDENR North Carolina Solid Waste Rules defined under 15A NCAC 13B, S&ME has completed the following activities on behalf of Edgecombe County in response to the detections of the VOC and metals in groundwater:

- Statistical analyses (January 2007) of semiannual water quality results of compliance well monitoring system in accordance with the facility's Water Quality Monitoring Plan (WQMP);

- Alternate Source Demonstration (ASD) study in accordance with Solid Waste Rules defined under 15A NCAC 13B.1633(c)(3) and .1634(g)(2);

- Nature and Extent Study (NES) prepared in accordance with Solid Waste Rules defined under 15A NCAC 13B.1634(g)(1);

- Assessment of Corrective Measures (ACM) in accordance with Solid Waste Rules defined under 15A NCAC 13B.1635; and,

- Corrective Action Plan (CAP) in accordance with Solid Waste Rules defined under 15A NCAC 13B.1636.

The January 2013 semiannual groundwater sampling services were completed in general accordance with the requirements of the Solid Waste Rules defined under 15A NCAC 13B .1632 (Groundwater Sampling and Analysis Requirements), .1634 (Assessment Monitoring Program), and .1637 (Implementation of the Corrective Action Program).

2.0 JANUARY 2013 SAMPLING EVENT

On January 21 and 22, 2013, S&ME personnel collected groundwater samples from 11 monitor wells (MW-3B, MW-4, MW-5, MW-6, MW-7A, MW-9, MW-12, MW-13, MW-14, MW-15, and MW-16) and surface water samples at two locations (upstream and downstream) at the Edgecombe County Landfill (**Figure 2**). S&ME personnel performed sampling in general accordance with the Solid Waste Rules and the facility's WQMP, dated June 2008, revised January 2010.

Prior to collecting groundwater samples, the monitor wells and piezometers listed in the WQMP network of points for groundwater elevation measurements were opened and allowed to equilibrate with atmospheric conditions before gauging the liquid level. Groundwater depths were measured to an accuracy of ±0.01 feet using an electronic water level indicator, which was decontaminated before its initial use and between measurements. The measurements were collected to calculate relative groundwater elevations; develop a groundwater potentiometric map; and to estimate the hydraulic gradient and groundwater flow direction at the time of the sampling event. Water level measurements are presented in **Table 1** and **Figure 2**.

After collecting the static groundwater levels, stagnant water from wells that were scheduled for sampling were purged using a peristaltic pump. Low-flow sampling methods were followed to purge and sample groundwater from the monitor wells. As purging proceeded, an YSI® multi-meter with a flow-through cell was used to measure field parameters that included pH, temperature, specific conductance, dissolved oxygen, oxidation-reduction potential, and turbidity on groundwater purged from the monitor wells. Purge parameter measurements were measured and recorded at regular intervals before sampling. The multi-meter was calibrated by Pine Environmental Services, Inc. and the calibration was field-checked with calibration standards by S&ME personnel before use.

A groundwater sample was collected after field parameters (pH, temperature, and conductivity) stabilized and the turbidity measurement was approximately 10 Nephelometric Turbidity Units (NTUs) or below. In accordance with the WQMP, field parameters were considered stable when they were changing less than 10 percent over three consecutive measurements. The field parameter measurements are presented in **Table 3**. One duplicate groundwater sample was collected from MW-5 for the purpose of Quality Control (QC). In addition, one trip blank and one equipment blank sample were also collected for QC. These results are included in **Table 2**.

Groundwater samples were collected through the silicon tubing directly into clean containers provided by the laboratory. Once filled, the sample containers were sealed, labeled, and placed into an insulated container with ice. The samples were managed under chain-of-custody protocols and shipped to Environmental Conservation Laboratories, Inc. (ENCO), a North Carolina-certified laboratory. ENCO analyzed the samples for constituents listed in 40 CFR 258 Appendix I.

The results of analytical testing are discussed in **Section 4.1** and a summary of constituent concentrations are presented in, **Table 2**. A copy of the laboratory reports is provided in **Appendix I**. A compact disk (CD) with an electronic copy of **Table 3** in Excel spreadsheet format (.xls) and an electronic copy of this report in portable document format (.pdf) are included in **Appendix II**.

3.0 SITE HYDROGEOLOGY

3.1 Groundwater Elevations and Flow Direction

The uppermost aquifer at the site is unconfined and is found in the silty sands of the Sunderland Formation. This aquifer is recharged by inflow from up-gradient areas and by precipitation infiltration. The uppermost aquifer underlying the landfill is expected to discharge to the local surface water features including Jerry's Creek and the drainage features in the active landfill area. During flood conditions, the southwest perimeter trench and the farm pond located in the southeast corner of the site may recharge the aquifer. The marine clay layer (Yorktown Formation) encountered at depths from approximately 8 to 24 feet below the original ground surface acts as an aquitard and semi-confining layer below the landfill.

Shallow monitoring wells and piezometers are installed in the surficial aquifer with the bottoms of the wells resting above, on, or penetrating the top of the Yorktown Formation. As previously discussed, static water levels in fifteen monitor wells and twelve piezometers of the site monitoring network were measured prior to sampling.

Static water level measurements collected during the January 2013 sampling event (**Table 1**) were used to calculate the corresponding groundwater elevations based on surveyed top of casing (TOC) elevations. A groundwater potentiometric map was developed using the groundwater elevations (**Figure 2**). Based upon the groundwater potentiometric surface elevations, the groundwater flow direction was estimated to be to the north-northeast. The average horizontal hydraulic gradient was calculated from three point calculation solutions using two sets (three wells per set) of groundwater elevation data measured on January 21, 2013 and by applying the following equation (Driscoll, 1986):

$$i = \frac{h_1 - h_2}{L}$$

Where:

i = Hydraulic gradient
$h_1 - h_2$ = Difference in hydraulic head (feet)
L = Distance along flow path (feet)

The three point calculation is used to estimate the hydraulic gradient perpendicular to a groundwater potentiometric contour of equal elevation determined from high, intermediate, and low groundwater elevations at three monitor wells. The gradient calculated perpendicular to the equal elevation contour plotted from the well set is representative of a true gradient rather than the apparent gradient that is estimated from a two-well point gradient calculation. Based on the Driscoll gradient equation and using a third groundwater elevation to plot the equal elevation contour, the distance L can be measured between h_1 and h_2 perpendicular to the equal elevation contour to estimate the true hydraulic gradient for the three groundwater elevation data points. The average horizontal hydraulic gradient from two three point solutions using well sets MW-3B,

MW-7A, and MW-5, and P-1, MW-7A and MW-5 is estimated to be 0.0202 ft/ft. The hydraulic gradient calculations are included in **Appendix III**.

3.2 Groundwater Flow Velocity

An approximate average linear groundwater flow velocity (V) was calculated using the following equation (Freeze and Cherry, 1979):

$$V = \frac{Ki}{n}$$

Where:
V = Average linear groundwater flow velocity [feet per year (ft/yr.)]
K = Hydraulic conductivity (ft/yr.)
i = Flow gradient as a ratio (ft/ft)
n = Effective soil porosity (percent)

Aquifer rising and falling head tests were previously performed at the site by Law Engineering Company (Law) and by S&ME. The aquifer test data were used to estimate the hydraulic conductivity of the sediments in the surficial aquifer intersected by the screened intervals of the monitor wells tested. The aquifer test data (provided in previous reports) were analyzed by the Bouwer and Rice Method.

The hydraulic conductivity, K, values previously measured at the site ranged from 1.29×10^{-5} centimeters per second (cm/sec) to 3.65×10^{-4} cm/sec. An average hydraulic conductivity value of 5.95×10^{-5} cm/sec was used for calculating the site-wide flow velocity. The average hydraulic gradient of 0.0202 ft/ft, calculated from the three point solution described above was used as the site-wide average gradient. An effective soil porosity, n, of 15% was used as the site-wide average.

The average groundwater flow velocity, V, for the site, using the equation and input values above, was estimated at 8.27 ft/yr. Groundwater flow velocity calculations are included in **Appendix III**. The average groundwater flow velocity information is presented on **Figure 2**.

4.0 GROUNDWATER QUALITY

In general accordance with the assessment monitoring requirements described in § .1634 of the Solid Waste Rules, S&ME sampled three background and eight compliance groundwater monitor wells during the January 2013 sampling event. The samples were analyzed by ENCO for constituents listed in the 40 CFR 258, Appendix I analyte list using the analytical methods that included EPA Method 6010/6020 (metals) and Method 8260B (VOCs). The field measurements and analytical results are summarized on **Table 1.** The groundwater summary of compound detections is presented in **Table 2**. The chain-of-custody form and the laboratory reports from ENCO are provided in **Appendix I**.

Effective December 1, 2006 NCDENR-DWM, Section, changed the standard limits for comparing constituent detections in laboratory analysis from the Practical Quantitation Limits (PQLs) established in 1994 to the Solid Waste Reporting Limits (SWRLs). On February 23, 2007, the Section further revised the reporting limits from the SWRL to the Solid Waste Section Limit (SWSL). The SWSL was defined as the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy. The new SWSL limits are lower than the previous PQL limits. Concentrations reported by the laboratory that are above the Method Detection Limit (MDL) but below the SWSL must be qualified as estimated values designated by the letter "J". According to the laboratory quality control performed by ENCO, detections above the MDL but below the method reporting limit (MRL) are considered estimated values, designated by the letter "J".

4.1 Groundwater Analytical Data

Constituent concentrations detected above the laboratory MDLs are summarized on **Table 2**. For comparison purposes, these results are shown with their respective SWSL and the 15A North Carolina Administrative Code (NCAC) Subchapter 2L .0200 Groundwater Quality Standards (2L Standard), which were recently revised and became effective January 1, 2010. Where target groundwater constituents have no established 2L Standard, the MDL is the default 2L Standard. However, since the DWM has listed constituent concentrations protective of groundwater, the NCDENR-DWM Section Ground Water Protection Standard (GWPST) established in accordance with the Solid Waste Management Rules, Section .1634(h) is used as the action level for detections where no 2L Standard is established.

4.1.1 Compare Background and Compliance Detections to the SWSL

The following table summarizes the monitor well locations where Appendix I constituents were detected at levels that are equal to or exceed the SWSL concentration in one or more samples in the January 2013 monitoring event:

January 2013 Groundwater Sampling Event
Appendix I Constituent Concentration Detected Equal to or Greater than SWSL

Background Monitor Wells	Appendix I Detected Constituents Equal to or Greater Than Their SWSL
MW-3B	barium, beryllium, cobalt, zinc
MW-4	barium
MW-9	barium
Compliance Monitor Wells	**Appendix I Detected Constituents Equal to or Greater Than Their SWSL**
MW-5	benzene, chlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, vinyl chloride, arsenic, barium, cobalt, zinc
MW-6	barium, cobalt, zinc
MW-7A	benzene, chlorobenzene, 1,4-dichlorobenzene, barium
MW-12	benzene, chlorobenzene, 1,4-dichlorobenzene, barium, cobalt, zinc
MW-13	chlorobenzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, barium, cobalt, nickel, silver, zinc
MW-14	barium
MW-15	cis-1,2-dichloroethene, 1,2-dichloropropane, vinyl chloride, barium, cobalt
MW-16	barium

Volatile Organic Compounds

No Appendix I VOC concentrations were reported at concentrations above the analytical method's detection limit in the groundwater samples collected from the background monitor wells MW-3B, MW-4, and MW-9, nor were they detected above the analytical method's detection limit in the groundwater samples collected from the compliance monitor wells MW-6, MW-14, and MW-16.

The table above lists the VOCs detected in groundwater sampled from monitor wells MW-5, MW-7A, MW-12, MW-13, and MW-15 that were detected above their respective SWSLs.

Inorganic Compounds

The table above lists the inorganic compounds detected in groundwater sampled from the up-gradient background monitor wells MW-3B, MW-4, and MW-9 and down-gradient compliance monitor wells MW-5, MW-6, MW-7A, MW-12, MW-13, MW-14, MW-15, and MW-16 that were detected above their respective SWSLs.

4.1.2 Compare Background and Compliance Detections to Standards

The following table summarizes the monitor well locations where Appendix I constituents were detected above the 2L Standard or GWPST (presented in **Table 2**). The following targeted chemicals were detected in one or more groundwater samples analyzed for the January 2013 monitoring event:

January 2013 Groundwater Sampling Event
Appendix I Constituent Concentration Detected Above 2L Standard or GWPST

Background Monitor Wells	Appendix I Detected Constituents Above 2L Standard or GWPST
MW-3B	cobalt
MW-4	antimony, cobalt
MW-9	--
Compliance Monitor Wells	**Appendix I Detected Constituents Above 2L Standard or GWPST**
MW-5	benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, vinyl chloride, arsenic, cobalt,
MW-6	cobalt, vanadium
MW-7A	benzene
MW-12	benzene, 1-4-dichlorobenzene, cobalt
MW-13	cobalt, nickel, thallium
MW-14	--
MW-15	1,2-dichloropropane, vinyl chloride, cobalt
MW-16	cobalt

-- = No Appendix I constituent concentrations were detected above 2L Standard or GWPST.

No Appendix I VOC or inorganic compound concentrations were detected above their respective 2L Standards or GWPSTs in the groundwater samples collected from the up-gradient background monitor well MW-9, nor were they detected in the groundwater sample collected from the down-gradient compliance monitor well MW-14. Constituent concentrations were detected above their respective 2L Standard or GWPST in groundwater samples collected from background monitor wells MW-3B and MW-4 and compliance monitor wells MW-5, MW-6, MW-7A, MW-12, MW-13, MW-15, and MW-16.

4.1.3 Compare Background and Compliance Detections to MDL

The analytical data was reviewed by comparing constituent detections in the background and compliance monitor wells to the laboratory's Method Detection Limit (MDL). Twenty-five Appendix I constituents (summarized in **Table 2**) were detected above the MDL in one or more groundwater samples collected during the January 2013 monitoring event.

January 2013 Groundwater Sampling Event
Appendix I Constituent Concentration Detected Above MDL

Background Monitor Wells	Appendix I Detected Constituents Detected Above MDL
MW-3B	barium, beryllium, cadmium, nickel, thallium, zinc
MW-4	barium, beryllium
MW-9	barium
Compliance Monitor Wells	**Appendix I Detected Constituents Detected Above MDL**
MW-5	chlorobenzene, trans-1,2-dichloroethene, barium, nickel, silver, thallium, zinc
MW-6	barium, beryllium, nickel, zinc
MW-7A	chlorobenzene, chloroethane, 1,4-dichlorobenzene, cis-1,2-dichloroethene, ethylbenzene, barium, zinc
MW-12	chlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, barium, beryllium, nickel, thallium, zinc
MW-13	benzene, chlorobenzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, barium, lead, silver, vanadium, zinc
MW-14	barium
MW-15	benzene, chlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, barium, nickel, silver, zinc
MW-16	barium, nickel, vanadium

4.1.4 Quality Control

Quality assurance and quality control of field sampling methods and analytical test methods were assessed by collecting and analyzing one duplicate sample, one equipment blank sample, and one trip blank sample. The duplicate and equipment blank samples were analyzed for Appendix I constituents by the same methods and for the same target constituents as the record samples, with the exception of dissolved metals. Duplicate sample analysis documents the consistency of field sampling methods and the consistency of laboratory testing between samples. Equipment blank sample analysis documents the quality of sampling equipment and decontamination procedures used to reduce the potential of cross-contamination or carry-over effects from sampling equipment used on-site. The trip blank is analyzed for VOCs to document the effect of external conditions on samples/sample containers during lab pack preparation and transportation to and from the site.

The concentrations of Appendix I VOCs and inorganic compounds detected in the record and in the duplicate samples collected from monitor well MW-5 were within an acceptable tolerance level and indicate a suitable replication of results from the test procedures. Given that the record sample and the duplicate sample for MW-5 were analyzed at a one to five dilution factor for the VOC analysis, these results fall within an

acceptable tolerance level and indicate suitable replications of results from the test procedures.

Barium was the only constituent detected at a concentration that exceeded its respective MDL, but was below its respective SWSL in the equipment blank sample. Because barium was detected in the equipment blank sample, the determination of the presence of copper and lead in the monitor well record samples were inconclusive.

Some technical limitations exist in the laboratory's reporting of MDLs. MDLs for some VOCs and some inorganic constituents are above applicable standards. The MDL for vinyl chloride (0.32 µg/L), cobalt (1.10 µg/L), and vanadium (1.40 µg/L) in groundwater are greater than the 2L Standard of 0.03 µg/L for vinyl chloride and the GWPSTs of 1.0 µg/L for cobalt and 0.3 µg/L for vanadium. Therefore, vinyl chloride, cobalt, and vanadium may have been present at concentrations above their respective 2L Standard/GWPST, but were reported as being below their respective MDLs.

4.2 Surface Water Analytical Data

Surface water samples were collected from two surface water stations: Upstream (SW-1) and Downstream (SW-2) in Jerry's Creek as part of the January 2013 monitoring event. Surface water sample stations are illustrated on **Figure 2**. Surface water analytical results are summarized on **Table 2**.

5.0 DISCUSSION OF GROUNDWATER DETECTIONS

Statistical analysis has been performed in previous reports to evaluate the significance of the analytical results. These analyses include a more comprehensive discussion of the groundwater quality and trends than are within the scope of this report. Modifications to the sampling and reporting schedule were made in the *Baseline Sampling and Monitored Natural Attenuation Report* (S&ME, 2011), which established that monitored natural attenuation parameters sampling and statistical analysis will be performed on an 18-month basis. Time series graphs for individual constituents were plotted for wells with detections of the corresponding constituents over the regulatory limits. The constituent charts are provided in **Appendix IV.**

5.1 Appendix I Inorganics

Of the 22 Appendix I constituents that were reported above the MDL from the January 2013 monitoring event, twelve are inorganic compounds. In June 2008, S&ME performed an Alternate Source Demonstration (ASD) study that concluded that several inorganic compounds detected in groundwater were the result of the natural occurrence of these constituents in the native, residual soil. The detections of the twelve inorganic compounds, with the exception of antimony and silver, were compared to the Dilution/Attenuation Factor (DAF) computations included in the ASD (reference **Table 2**). This comparison indicates that the concentrations of the naturally occurring metals arsenic, beryllium, cadmium, chromium, copper, lead, selenium, thallium, vanadium, and zinc within the in-situ soil at the facility are sufficient to influence the concentrations of these metals in groundwater samples collected during the January 2013 monitoring event and will not be discussed in the following.

Three Appendix I inorganics not included in the above list of naturally occurring metals were detected at concentrations above their respective 2L Standards or SWSLs in groundwater samples collected from compliance wells; barium, cobalt, and nickel.

5.2 Appendix I VOCs

Appendix I VOCs were reported above the laboratory method detection limits in groundwater samples collected from compliance monitor wells MW-5, MW-7A, MW-12, MW-13, and MW-15. Of the detected constituents, the following were reported at concentrations in excess of the respective 2L Standard or the SWSL: benzene, 1,4-dichlorobenzene, cis-1,2-dischloroethene, 1,2-dichloropropane, and vinyl chloride.

With some exceptions, concentrations of VOCs tend to increase during the July sampling events and decrease during the January sampling events. Lower January concentrations are likely a function of the higher water table resulting from increased rainfall in the winter months. The goals of the corrective measures include minimizing the infiltration of rainwater through the waste, and increasing the residence time of constituents so that constituents are completely attenuated prior to migration off site.

5.3 Previous Investigations Selected Corrective Measures Remedy

On June 30, 2008, S&ME prepared a *Corrective Action Plan* in which the following corrective measures were recommended:

- Installation of an up-gradient groundwater barrier wall;
- Maintaining a consistent contour with pre-1998 waste area;
- Increasing slope of the closed MSW area;
- Stormwater improvements on the western half of the landfill; and,
- Implementation of a MNA program to address impacted groundwater.

S&ME prepared a *Baseline Water Quality and Monitored Natural Attenuation Report*, which established baseline water quality standards to gauge monitored attenuation and establish the key parameters for sampling. Corrective measures currently being implemented at the site include the increase in slope of the closed MSW area, stormwater improvements, and the implementation of the MNA program. Semi-annual monitoring will continue to assess the effectiveness of the corrective measures.

6.0 CONCLUSIONS AND RECOMMENDATIONS

S&ME performed semiannual sampling at the Edgecombe County Landfill in Tarboro, North Carolina. During the January 2013 sampling event, groundwater elevations were calculated from water levels measured in approximately 37 points in the monitoring network described in the WQMP. Groundwater samples were collected from three background (up-gradient) monitor wells and eight compliance (down-gradient) monitor wells. Surface water samples were collected from two stream sample locations (upstream and downstream).

6.1 Summary of January 2013 Sampling Event

- Based on the water table elevations and calculated potentiometric surface, the groundwater flow direction within the surficial aquifer was estimated to be toward the north-northeast with an average hydraulic gradient of 0.0202 ft/ft. The average groundwater flow velocity for the site is approximately 8.27 ft/yr.

- Constituent concentrations of 22 Appendix I analytes were detected in one or more samples collected during the January 2013 monitoring event. Thirteen of the 22 Appendix I analytes were detected in one or more samples at concentrations equal to or exceeding their respective SWSLs. Barium, beryllium, cobalt, and zinc were detected in one or more up-gradient (background) samples at concentrations above their respective SWSLs.

- Eleven Appendix I analytes were detected at concentrations in excess of the 2L Standards in groundwater samples collected at the site including benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, 1,2-dichloropropane, vinyl chloride, antimony, arsenic, cobalt, nickel, thallium, and vanadium . Wells in which there were one or more constituents above the standards include MW-3B, MW-4, MW-5, MW-6, MW-7A, MW-12, MW-13, MW-15, and MW-16.

- Three Appendix I inorganics (metals) were detected above the laboratory method detection limits in the surface water samples collected from Jerry's Creek. One constituent, cobalt, was detected in the upstream and downstream samples at a concentration above the GWPST. The concentration was above the laboratory method detection limit but below the practical quantitative limit and the concentration was flagged as an estimated value.

- Constituent detections above the 2L Standard or GWPST trigger implementing the assessment monitoring program. This monitoring event was performed in general accordance with § .1634 (d)(2) of the Solid Waste Rules since the Assessment Monitoring Program was already implemented. An Alternate Source Demonstration (ASD) study was performed, the Nature and Extent Study (NES) was prepared, the Assessment of Corrective Measures (ACM) was performed, and the Corrective Action Plan (CAP) was prepared and approved by the NCDENR. Corrective measures have been initiated with grading improvements on the landfill cap and the

construction of the barrier wall; therefore, monitoring for this event is also for compliance with § .1637 (a)(1) under Implementation of the Corrective Action Program.

6.1 Recommendations

The results of the January 2013 sampling event show that groundwater near the Edgecombe County Landfill has been impacted by a release of constituents from the facility. The additional assessment performed at the site as part of the NES and ACM refined the source characterization, determination of constituents-of-concern, and evaluation of corrective actions. Based on the additional findings presented in the NES and ACM, the County selected a remedy for corrective measures and submitted a CAP.

According to the *Corrective Action Plan Review* letter, dated January 16, 2009, the Solid Waste Section recommends that semiannual sampling be continued at the site for analytes on the Appendix I constituent list.

S&ME completed four baseline data sets of MNA parameters and has submitted the *Baseline Water Quality and MNA Corrective Action Evaluation Report (Baseline and MNA Report).* As part of the recommendations, S&ME revised the sampling schedule for the semi-annual groundwater monitoring events. Select monitored attenuation parameters will be monitored on an 18 month basis and will be included in the July 2013 semi-annual monitoring event. S&ME recommends sampling according to the schedule submitted in the *Baseline and MNA Report*.

As required by North Carolina Solid Waste Management Rule .1634, these results should be forwarded to the owner/operator of the Edgecombe County Landfill for inclusion in the operating record and to the North Carolina Division of Solid Waste for their review.

7.0 REFERENCES

Department of Environment and Natural Resources, Division of Water Quality, *15A NC Administrative Code Subchapter 2B .0200 Classifications and Water Quality Standards Applicable to Surface Waters and Wetlands of NC*, May 2007.

Department of Environment and Natural Resources, Division of Water Quality, *15A NC Administrative Code Subchapter 2L .0200 Groundwater Quality Standards*, January 2010.

Department of Environment and Natural Resources, Division of Waste Management, *15A NC Administrative Code Subchapter 13B .1634(h) Solid Waste Groundwater Protection Standard, Solid Waste Management Rules*, November 2004.

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Montgomery, John H., *Groundwater Chemicals, Second Edition Desk Reference*, CRC Press, Inc., 1996.

Pankow, James F. and Cherry, John A., *Dense Chlorinated Solvents and other DNAPLs in Groundwater*, p. 267-284, 1996.

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S&ME, Inc., *Baseline Water Quality and Monitored Natural Attenuation Report*, January 2012.

S&ME, Inc., *Corrective Action Plan, Edgecombe County Landfill*, June 30, 2008.

S&ME, Inc., *Nature and Extent Study, Edgecombe County Landfill*, June 25, 2008.

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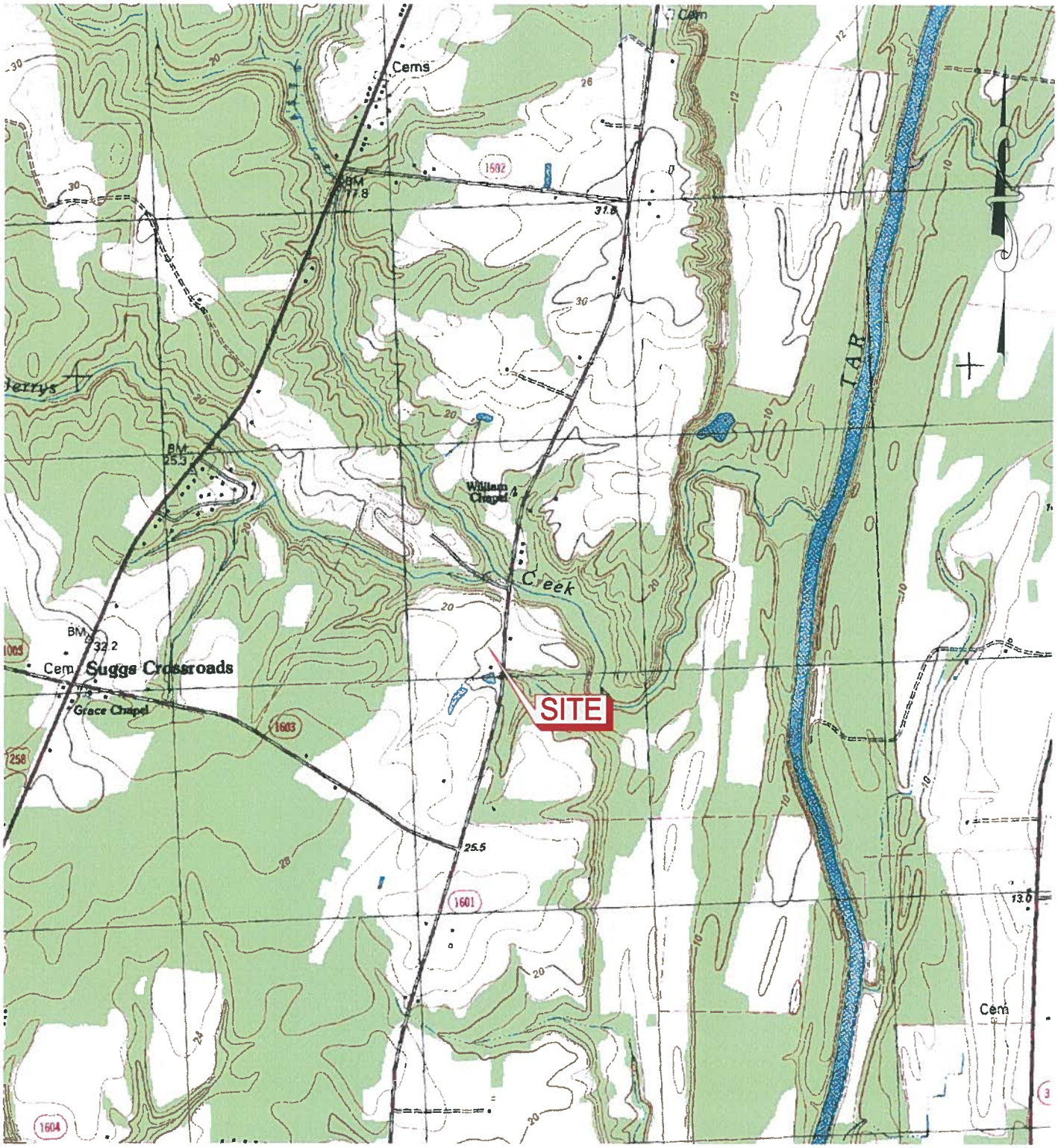
S&ME, Inc., *Revision to the Sampling and Analysis Plan (SAP) Edgecombe County Landfill*, November 9, 1998.

US Department of Agriculture, Soil Conservation Service, *Soil Survey of Edgecombe County, NC*, November 1979.

FIGURES



GRAPHIC SCALE

1000 0 500 1000 2000

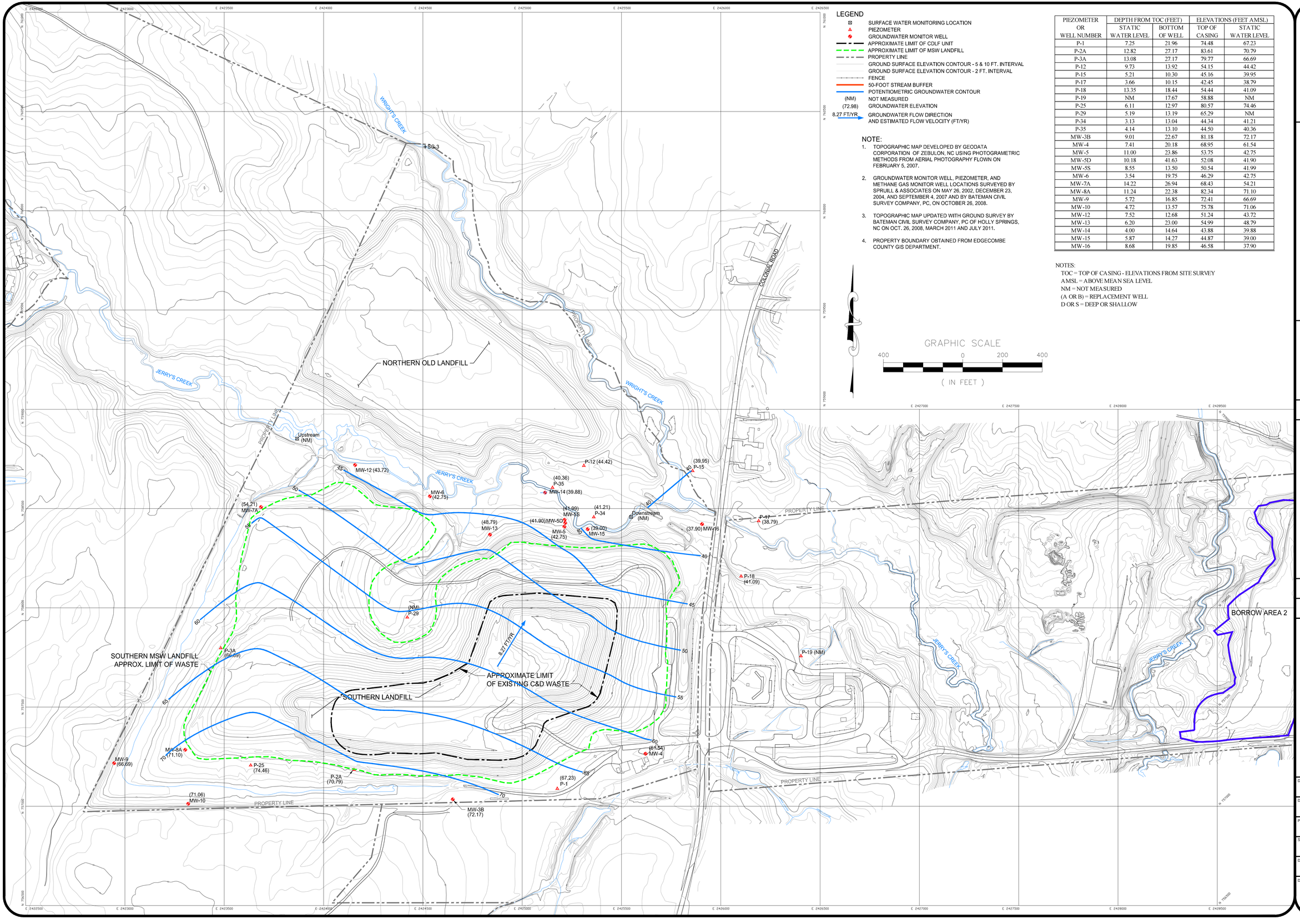
(IN FEET)

TOPO SOURCE: NCGS DRG
OLD SPARTA, NC (035077G5) DATED 1981
CONTOUR INTERVAL: 2 METERS

A-2854

SCALE: 1" = 2000'	S&ME WWW.SMEINC.COM	VICINITY MAP	FIGURE NO.
DATE: JAN. 2012		BASELINE GROUNDWATER SAMPLING & MONITORED NATURAL ATTENUATION REPORT - EDGECOMBE TARBORO, NORTH CAROLINA	1
DRAWN BY:			
PROJECT NO: 1054-07-238D	NC ENGINEER LICENSE #F-0176 3201 SPRING FOREST RD, RALEIGH, NC 27616		

S:\PROJECTS\2007\07-238D Edgecombe - Environmental Monitoring 2011-12\CAD\A2854.dwg, FIG1, 1/9/2012 2:35:33 PM, 1:1



LEGEND

- SURFACE WATER MONITORING LOCATION
- PIEZOMETER
- GROUNDWATER MONITOR WELL
- APPROXIMATE LIMIT OF CDLF UNIT
- APPROXIMATE LIMIT OF MSW LANDFILL
- PROPERTY LINE
- GROUND SURFACE ELEVATION CONTOUR - 5 & 10 FT. INTERVAL
- GROUND SURFACE ELEVATION CONTOUR - 2 FT. INTERVAL
- FENCE
- 50-FOOT STREAM BUFFER
- POTENTIOMETRIC GROUNDWATER CONTOUR
- (NM) NOT MEASURED
- (72.98) GROUNDWATER ELEVATION
- 8.27 FT/YR GROUNDWATER FLOW DIRECTION AND ESTIMATED FLOW VELOCITY (FT/YR)

NOTE:

1. TOPOGRAPHIC MAP DEVELOPED BY GEODATA CORPORATION OF ZEBULON, NC USING PHOTOGRAMETRIC METHODS FROM AERIAL PHOTOGRAPHY FLOWN ON FEBRUARY 5, 2007.
2. GROUNDWATER MONITOR WELL, PIEZOMETER, AND METHANE GAS MONITOR WELL LOCATIONS SURVEYED BY SPRUILL & ASSOCIATES ON MAY 26, 2002, DECEMBER 23, 2004, AND SEPTEMBER 4, 2007 AND BY BATEMAN CIVIL SURVEY COMPANY, PC, ON OCTOBER 26, 2008.
3. TOPOGRAPHIC MAP UPDATED WITH GROUND SURVEY BY BATEMAN CIVIL SURVEY COMPANY, PC OF HOLLY SPRINGS, NC ON OCT. 26, 2008, MARCH 2011 AND JULY 2011.
4. PROPERTY BOUNDARY OBTAINED FROM EDGECOMBE COUNTY GIS DEPARTMENT.

GRAPHIC SCALE

400 0 200 400

(IN FEET)

PIEZOMETER OR WELL NUMBER	DEPTH FROM TOC (FEET)		ELEVATIONS (FEET AMSL)	
	STATIC WATER LEVEL	BOTTOM OF WELL	TOP OF CASING	STATIC WATER LEVEL
P-1	7.25	21.96	74.48	67.23
P-2A	12.82	27.17	83.61	70.79
P-3A	13.08	27.17	79.77	66.69
P-12	9.73	13.92	54.15	44.42
P-15	5.21	10.30	45.16	39.95
P-17	3.66	10.15	42.45	38.79
P-18	13.35	18.44	54.44	41.09
P-19	NM	17.67	58.88	NM
P-25	6.11	12.97	80.57	74.46
P-29	5.19	13.19	65.29	NM
P-34	3.13	13.04	44.34	41.21
P-35	4.14	13.10	44.50	40.36
MW-3B	9.01	22.67	81.18	72.17
MW-4	7.41	20.18	68.95	61.54
MW-5	11.00	23.86	53.75	42.75
MW-5D	10.18	41.63	52.08	41.90
MW-5S	8.55	13.50	50.54	41.99
MW-6	3.54	19.75	46.29	42.75
MW-7A	14.22	26.94	68.43	54.21
MW-8A	11.24	22.38	82.34	71.10
MW-9	5.72	16.85	72.41	66.69
MW-10	4.72	13.57	75.78	71.06
MW-12	7.52	12.68	51.24	43.72
MW-13	6.20	23.00	54.99	48.79
MW-14	4.00	14.64	43.88	39.88
MW-15	5.87	14.27	44.87	39.00
MW-16	8.68	19.85	46.58	37.90

NOTES:
TOC = TOP OF CASING - ELEVATIONS FROM SITE SURVEY
AMSL = ABOVE MEAN SEA LEVEL
NM = NOT MEASURED
(A OR B) = REPLACEMENT WELL
D OR S = DEEP OR SHALLOW

S&ME
WWW.SMEINC.COM

NO.	DATE	DESCRIPTION	BY

GROUNDWATER POTENTIOMETRIC MAP
JANUARY 21, 2013

ENVIRONMENTAL COMPLIANCE MONITORING
EDGECOMBE COUNTY LANDFILL
TARBORO, NORTH CAROLINA

DRAWN BY: BTR	CHECKED BY:
DESIGNED BY:	APPROVED BY:
PROJECT NUMBER: 1054-07-238E	
SCALE: 1" = 200'	DATE: MARCH 2013
DRAWING NUMBER: D-1317	
DRAWING: 2	OF: 2

TABLES

Table 1
Groundwater Elevation Data
Edgecombe County Landfill
January 21 and 22, 2013 Sampling Event
S&ME Project No. 1054-07-238E

PIEZOMETER OR WELL NUMBER	DEPTH FROM TOC (FEET)		ELEVATIONS (FEET AMSL)	
	STATIC WATER LEVEL	BOTTOM OF WELL	TOP OF CASING	STATIC WATER LEVEL
P-1	7.25	21.96	74.48	67.23
P-2A	12.82	27.17	83.61	70.79
P-3A	13.08	27.17	79.77	66.69
P-12	9.73	13.92	54.15	44.42
P-15	5.21	10.30	45.16	39.95
P-17	3.66	10.15	42.45	38.79
P-18	13.35	18.44	54.44	41.09
P-19	NM	17.67	58.88	NM
P-25	6.11	12.97	80.57	74.46
P-29	5.19	13.19	65.29	NM
P-34	3.13	13.04	44.34	41.21
P-35	4.14	13.10	44.50	40.36
MW-3B	9.01	22.67	81.18	72.17
MW-4	7.41	20.18	68.95	61.54
MW-5	11.00	23.86	53.75	42.75
MW-5D	10.18	41.63	52.08	41.90
MW-5S	8.55	13.50	50.54	41.99
MW-6	3.54	19.75	46.29	42.75
MW-7A	14.22	26.94	68.43	54.21
MW-8A	11.24	22.38	82.34	71.10
MW-9	5.72	16.85	72.41	66.69
MW-10	4.72	13.57	75.78	71.06
MW-12	7.52	12.68	51.24	43.72
MW-13	6.20	23.00	54.99	48.79
MW-14	4.00	14.64	43.88	39.88
MW-15	5.87	14.27	44.87	39.00
MW-16	8.68	19.85	46.58	37.90

NOTES:
TOC = TOP OF CASING - ELEVATIONS FROM SITE SURVEY
AMSL = ABOVE MEAN SEA LEVEL
NM = NOT MEASURED
(A OR B) = REPLACEMENT WELL
D OR S = DEEP OR SHALLOW

Table 2
Groundwater Quality Summary
Edgecombe County Landfill
January 21 and 22, 2013 Sampling Event
S&ME Project No. 1054-07-238E

APPENDIX I VOCs EPA METHOD 8260B	UNITS	2L STANDARD	BACKGROUND MONITOR WELLS			COMPLIANCE MONITOR WELLS								QUALITY CONTROL			SURFACE WATER		SWSL	DAF Computation
			MW-3B	MW-4	MW-9	MW-5	MW-6	MW-7A	MW-12	MW-13	MW-14	MW-15	MW-16	DUPLICATE (MW-5)	EQUIPMENT BLANK	TRIP BLANK	UPSTREAM (SW-1)	DOWNSTREAM (SW-2)		
Acetone	ug/l	6,000	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	100	NA
Benzene	µg/l	1	<0.15	<0.15	<0.15	**4.4 JD**	<0.15	**2.8**	**3.6**	**0.51 J**	<0.15	**0.64 J**	<0.15	**4.4 JD**	<0.15	<0.15	<0.15	<0.15	1	NA
Chlorobenzene	µg/l	50	<0.17	<0.17	<0.17	**15 D**	<0.17	**4.2**	**3.9**	**6.3**	<0.17	**1.6 J**	<0.17	**17 D**	<0.17	<0.17	<0.17	<0.17	3	NA
Chloroethane	µg/l	3,000	<0.23	<0.23	<0.23	<0.23	<0.23	**1.6 J**	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	10	NA
1,4-Dichlorobenzene	µg/l	6	<0.19	<0.19	<0.19	**10 D**	<0.19	**1.6**	**7.0**	**1.6**	<0.19	<0.19	<0.19	**11 D**	<0.19	<0.19	<0.19	<0.19	1	NA
1,1-Dichloroethane	µg/l	6	<0.13	<0.13	<0.13	**6 D**	<0.13	<0.13	**0.96 J**	<0.13	<0.13	**0.69 J**	<0.13	**6.6 D**	<0.13	<0.13	<0.13	<0.13	5	NA
cis-1,2-Dichloroethene	µg/l	70	<0.15	<0.15	<0.15	**500 D**	<0.15	**0.54 J**	**0.65 J**	**6**	<0.15	**15**	<0.15	**530 D**	<0.15	<0.15	<0.15	<0.15	5	NA
Ethylbenzene	µg/l	6	<0.13	<0.13	<0.13	**<0.13**	<0.13	**0.54 J**	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	1	NA
trans-1,2-Dichloroethene	µg/l	100	<0.21	<0.21	<0.21	**3.5 JD**	<0.21	<0.21	<0.21	<0.21	<0.21	**0.68 J**	<0.21	**3.4 JD**	<0.21	<0.21	<0.21	<0.21	5	NA
1,2-Dichloropropane	µg/l	0.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**1.2**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1	NA
Methylene chloride	µg/l	5	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	1	NA
Trichloroethene	µg/l	3	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	1	NA
Vinyl chloride	µg/l	0.03	<0.32	<0.32	<0.32	**24 D**	<0.32	<0.32	<0.32	<0.32	<0.32	**3.3**	<0.32	**24 D**	<0.32	<0.32	<0.32	<0.32	1	NA
APP. I INORGANIC COMPOUNDS EPA METHOD 6010B	**UNITS**	**2L STANDARD**	**BACKGROUND MONITOR WELLS**			**COMPLIANCE MONITOR WELLS**								**QUALITY CONTROL**			**SURFACE WATER**		**SWSL**	**DAF Computation**
			MW-3B	**MW-4**	**MW-9**	**MW-5**	**MW-6**	**MW-7A**	**MW-12**	**MW-13**	**MW-14**	**MW-15**	**MW-16**	**DUPLICATE (MW-5)**	**EQUIPMENT BLANK**	**TRIP BLANK**	**UPSTREAM (SW-1)**	**DOWNSTREAM (SW-2)**		
Antimony (Total)	µg/l	1*	<.22	**1.30 J**	<.22	<.22	<.22	<.22	<.22	<.22	<.22	<.22	<.22	<.22	<0.22	NS	<0.22	<0.22	6	NA
Arsenic (Total)	µg/l	10	<2.8	<2.8	<2.8	**22.3**	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	**29.1**	<2.8	NS	<2.8	<2.8	10	200
Barium (Total)	µg/l	700	**124**	**102**	**122**	**256**	**210**	**221 D**	**275**	**252**	**238**	**378**	**328**	**255**	**1.20 J**	NS	**66.0 J**	**66.7 J**	100	118
Beryllium (Total)	µg/l	4*	**1.56**	**0.188 J**	<1.0	<1.0	**0.326 J**	<1.0	**0.462 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	NS	<0.1	<0.1	1	17
Cadmium (Total)	µg/l	2	**0.422 J**	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	NS	<0.36	<0.36	1	20
Chromium (Total)	µg/l	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS	<1.0	<1.0	10	640
Cobalt (Total)	µg/l	1*	**27.1**	**1.52 J**	<1.1	**191**	**16.9**	<1.1	**16.7**	**1,150**	<1.1	**15**	**2.10 J**	**191**	<1.1	NS	**1.48 J**	**2.43 J**	10	410
Copper (Total)	µg/l	1,000	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	NS	<1.6	<1.6	10	210
Lead (Total)	µg/l	15	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	**4.17 J**	<1.9	<1.9	<1.9	**2.32 J**	<1.9	NS	<1.9	<1.9	10	360
Nickel (Total)	µg/l	100	**29.7 J**	<1.8	<1.8	**49.4 J**	**8.05 J**	<1.8	**20.4 J**	**273**	<1.8	**9.62 J**	**2.45 J**	**48.6 J**	<1.8	NS	<1.8	<1.8	50	230
Selenium (Total)	µg/l	20	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	NS	<0.83	<0.83	10	80
Silver (Total)	µg/l	20	<1.9	<1.9	<1.9	**7.01 J**	<1.9	<1.9	<1.9	**10.2**	<1.9	**4.89 J**	<1.9	**6.53 J**	<1.9	NS	<1.9	<1.9	10	NA
Thallium (Total)	µg/l	0.28*	**0.117 J**	<0.11	<0.11	**0.164 J**	<0.11	<0.11	**0.173 J**	**1.10 J**	<0.11	<0.11	<0.11	**0.112 J**	<0.11	NS	<0.11	<0.11	5.5	5
Vanadium (Total)	µg/l	0.3*	<1.4	<1.4	<1.4	<1.4	**1.43 J**	<1.4	<1.4	**0.63 J**	<1.4	<1.4	**1.63 J**	<1.4	<1.4	NS	<1.4	<1.4	25	670
Zinc (Total)	µg/l	1,000	**53.3**	<3.8	<3.8	**68.3**	**39.2**	**8.74 J**	**163**	**155**	<3.8	**3.85 J**	<3.8	**68**	<3.8	NS	**5.81 J**	**5.75 J**	10	430

NOTES:
Samples were collected on January 21-22, 2012 and analyzed by Environmental Conservation Laboratories, Inc. (ENCO). Detection limits are shown on laboratory reports.
Values which are **BOLD** indicate levels above laboratory detection limits.
Values which are **BOLD** and shaded indicate levels above their respective NCDENR 2L or GWPST.
DAF Comuptation = Dilution/Attenuation Factor Computation (ref. S&ME Alternate Source Demonstration, June 2008).
2L STANDARD = North Carolina groundwater standards as promulgated by 15A North Carolina Administrative Code, Subchapter 2L.
SWSL = Solid Waste Section Limit. (ref. NCDENR-DWM, Solid Waste Section February 23, 2007 memorandum)
* Indicates there is currently no 2L Standard. The target analyte was compared to the Solid Waste Groundwater Protection Standard (GWPST).
J = Analyte detected, but below the laboratory reporting limit therefore the result is an estimated concentration.
D = The sample was analyzed at dilution.
NS = Not Sampled for this parameter.
µg/L = Micrograms Per Liter
VOCs = Volatile Organic Compounds
Duplicate sample collected from monitor well MW-5.
Appendix I compounds not shown were not detected during this sampling event. See **Appendix I** of the report for laboratory reports.

APPENDIX I

(REPORT OF LABORATORY ANALYSES)

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

Tuesday, January 29, 2013

S&ME, Inc. (SM001)

Attn: Sam Watts

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1040-01-545E, Project Name/Desc: Edgecombe County Landfill - App I
ENCO Workorder(s): C216021

Dear Sam Watts,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, January 23, 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,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 68.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 3301-MW3B | **Lab ID: C216021-01** | **Sampled: 01/21/13 11:45** | **Received: 01/23/13 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/20/13	01/23/13 10:49	1/25/2013 12:20
EPA 6020A	07/20/13	01/23/13 15:16	1/29/2013 13:03
EPA 8260B	02/04/13	01/23/13 13:35	1/25/2013 04:03

Client ID: 3301-MW4 | **Lab ID: C216021-02** | **Sampled: 01/21/13 11:04** | **Received: 01/23/13 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/20/13	01/23/13 10:49	1/25/2013 12:36
EPA 6020A	07/20/13	01/23/13 15:16	1/29/2013 12:43
EPA 8260B	02/04/13	01/23/13 13:35	1/25/2013 04:32

Client ID: 3301-MW5 | **Lab ID: C216021-03** | **Sampled: 01/22/13 14:00** | **Received: 01/23/13 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/21/13	01/23/13 10:49	1/25/2013 12:38
EPA 6020A	07/21/13	01/23/13 15:16	1/29/2013 13:07
EPA 8260B	02/05/13	01/23/13 13:35	1/25/2013 05:01

Client ID: 3301-MW6 | **Lab ID: C216021-04** | **Sampled: 01/21/13 17:05** | **Received: 01/23/13 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/20/13	01/23/13 10:49	1/25/2013 12:41
EPA 6020A	07/20/13	01/23/13 15:16	1/29/2013 13:11
EPA 8260B	02/04/13	01/23/13 13:35	1/25/2013 05:31

Client ID: 3301-MW7A | **Lab ID: C216021-05** | **Sampled: 01/21/13 17:45** | **Received: 01/23/13 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/20/13	01/23/13 10:49	1/25/2013 12:43
EPA 6020A	07/20/13	01/23/13 15:16	1/29/2013 13:23
EPA 8260B	02/04/13	01/23/13 13:35	1/25/2013 06:00

Client ID: 3301-MW7A | **Lab ID: C216021-05RE1** | **Sampled: 01/21/13 17:45** | **Received: 01/23/13 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/20/13	01/23/13 10:49	1/25/2013 13:08

Client ID: 3301-MW9 | **Lab ID: C216021-06** | **Sampled: 01/21/13 12:45** | **Received: 01/23/13 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/20/13	01/23/13 10:49	1/25/2013 12:46
EPA 6020A	07/20/13	01/23/13 15:16	1/29/2013 13:27
EPA 8260B	02/04/13	01/23/13 13:35	1/25/2013 06:29

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Client ID: 3301-MW12	Lab ID: C216021-07	Sampled: 01/22/13 11:05	Received: 01/23/13 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/21/13	01/23/13 10:49	1/25/2013 12:48
EPA 6020A	07/21/13	01/23/13 15:16	1/29/2013 13:31
EPA 8260B	02/05/13	01/23/13 13:35	1/25/2013 06:59

Client ID: 3301-MW13	Lab ID: C216021-08	Sampled: 01/22/13 13:25	Received: 01/23/13 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/21/13	01/23/13 10:49	1/25/2013 12:51
EPA 6020A	07/21/13	01/23/13 15:16	1/29/2013 13:35
EPA 8260B	02/05/13	01/24/13 09:01	1/25/2013 08:06

Client ID: 3301-MW14	Lab ID: C216021-09	Sampled: 01/21/13 14:50	Received: 01/23/13 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/20/13	01/23/13 10:49	1/25/2013 12:53
EPA 6020A	07/20/13	01/23/13 15:16	1/29/2013 13:39
EPA 8260B	02/04/13	01/24/13 06:54	1/24/2013 12:10

Client ID: 3301-MW15	Lab ID: C216021-10	Sampled: 01/22/13 09:45	Received: 01/23/13 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/21/13	01/23/13 10:49	1/25/2013 12:56
EPA 6020A	07/21/13	01/23/13 15:16	1/29/2013 13:43
EPA 8260B	02/05/13	01/24/13 06:54	1/24/2013 12:40

Client ID: 3301-MW16	Lab ID: C216021-11	Sampled: 01/21/13 16:00	Received: 01/23/13 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/20/13	01/23/13 10:49	1/25/2013 12:58
EPA 6020A	07/20/13	01/23/13 15:16	1/29/2013 13:47
EPA 8260B	02/04/13	01/24/13 06:54	1/24/2013 13:11

Client ID: 3301-SW1	Lab ID: C216021-12	Sampled: 01/22/13 11:15	Received: 01/23/13 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/21/13	01/23/13 10:49	1/25/2013 13:15
EPA 6020A	07/21/13	01/23/13 15:16	1/29/2013 13:51
EPA 8260B	02/05/13	01/24/13 06:54	1/24/2013 13:41

Client ID: 3301-SW2	Lab ID: C216021-13	Sampled: 01/21/13 16:10	Received: 01/23/13 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/20/13	01/23/13 10:49	1/25/2013 13:17
EPA 6020A	07/20/13	01/23/13 15:16	1/29/2013 13:55
EPA 8260B	02/04/13	01/24/13 06:54	1/24/2013 14:10

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Client ID: 3301-Duplicate	Lab ID: C216021-14	Sampled: 01/22/13 08:00	Received: 01/23/13 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/21/13	01/23/13 10:49	1/25/2013 13:20
EPA 6020A	07/21/13	01/23/13 15:16	1/29/2013 13:59

Client ID: 3301-Duplicate	Lab ID: C216021-14RE1	Sampled: 01/22/13 08:00	Received: 01/23/13 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	02/05/13	01/24/13 06:54	1/25/2013 12:35

Client ID: 3301-Equipment Blank	Lab ID: C216021-15	Sampled: 01/22/13 16:00	Received: 01/23/13 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/21/13	01/23/13 10:49	1/25/2013 13:23
EPA 6020A	07/21/13	01/23/13 15:16	1/29/2013 14:11
EPA 8260B	02/05/13	01/24/13 06:54	1/24/2013 15:10

Client ID: Trip Blank	Lab ID: C216021-16	Sampled: 01/21/13 11:04	Received: 01/23/13 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	02/04/13	01/24/13 06:54	1/24/2013 15:40

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 3301-MW3B **Lab ID: C216021-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	124		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	1.56		1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.422	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	27.1		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	29.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.117	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Zinc - Total	53.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW4 **Lab ID: C216021-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	1.30	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	102		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.188	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	1.52	J	1	1.10	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW5 **Lab ID: C216021-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	6.0	D	5	0.65	5.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	10	D	5	0.95	5.0	1	ug/L	EPA 8260B	
Arsenic - Total	22.3		1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	256		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	4.4	JD	5	0.75	5.0	1	ug/L	EPA 8260B	
Chlorobenzene	15	D	5	0.85	5.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	500	D	5	0.75	5.0	5	ug/L	EPA 8260B	
Cobalt - Total	191		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	49.4	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	7.01	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.164	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
trans-1,2-Dichloroethene	3.5	JD	5	1.0	5.0	5	ug/L	EPA 8260B	
Vinyl chloride	24	D	5	1.6	5.0	1	ug/L	EPA 8260B	
Zinc - Total	68.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW6 **Lab ID: C216021-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	210		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.326	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	16.9		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	8.05	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	1.43	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	39.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW7A **Lab ID: C216021-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	1.6		1	0.19	1.0	1	ug/L	EPA 8260B	
Benzene	2.8		1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	4.2		1	0.17	1.0	3	ug/L	EPA 8260B	
Chloroethane	1.6	J	1	0.23	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	0.54	J	1	0.15	1.0	5	ug/L	EPA 8260B	

Client ID: 3301-MW7A **Lab ID: C216021-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Ethylbenzene	0.54	J	1	0.13	1.0	1	ug/L	EPA 8260B	
Zinc - Total	8.74	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW7A **Lab ID: C216021-05RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	221	D	10	10.0	100	100	ug/L	EPA 6010C	R-05

Client ID: 3301-MW9 **Lab ID: C216021-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	122		1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 3301-MW12 **Lab ID: C216021-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.96	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	7.0		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	275		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	3.6		1	0.15	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.462	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	3.9		1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	0.65	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	16.7		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	20.4	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.173	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Zinc - Total	163		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW13 **Lab ID: C216021-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	1.6		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	252		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.51	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	6.3		1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	5.7		1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1150		1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Total	4.17	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	273		1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	10.2		1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	1.10	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vinyl chloride	0.63	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	155		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW14 **Lab ID: C216021-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	238		1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 3301-MW15 **Lab ID: C216021-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.69	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichloropropane	1.2		1	0.10	1.0	1	ug/L	EPA 8260B	
Barium - Total	378		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.64	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	1.6	J	1	0.17	1.0	3	ug/L	EPA 8260B	

Client ID: 3301-MW15 **Lab ID: C216021-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
cis-1,2-Dichloroethene	15		1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	15.0		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	9.62	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	4.89	J	1	1.90	10.0	10	ug/L	EPA 6010C	
trans-1,2-Dichloroethene	0.68	J	1	0.21	1.0	5	ug/L	EPA 8260B	
Vinyl chloride	3.3		1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	3.85	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW16 **Lab ID: C216021-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	328		1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	2.10	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.45	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	1.63	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 3301-SW1 **Lab ID: C216021-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	66.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	1.48	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Zinc - Total	5.81	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-SW2 **Lab ID: C216021-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	66.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	2.43	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Zinc - Total	5.75	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-Duplicate **Lab ID: C216021-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	29.1		1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	255		1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	191		1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.32	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	48.6	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	6.53	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.112	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Zinc - Total	68.0		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-Duplicate **Lab ID: C216021-14RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	6.6	D	5	0.65	5.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	11	D	5	0.95	5.0	1	ug/L	EPA 8260B	
Benzene	4.4	JD	5	0.75	5.0	1	ug/L	EPA 8260B	
Chlorobenzene	17	D	5	0.85	5.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	530	D	5	0.75	5.0	5	ug/L	EPA 8260B	
trans-1,2-Dichloroethene	3.4	JD	5	1.0	5.0	5	ug/L	EPA 8260B	
Vinyl chloride	24	D	5	1.6	5.0	1	ug/L	EPA 8260B	

Client ID: 3301-Equipment Blank **Lab ID: C216021-15**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	1.20	J	1	1.00	10.0	100	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 3301-MW3B
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C216021-01
Sampled: 01/21/13 11:45
Sampled By: gerald Paul/ Bob Bryant

Received: 01/23/13 09:10
Work Order: C216021

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	01/25/13 04:03	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/25/13 04:03	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/25/13 04:03	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/25/13 04:03	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/25/13 04:03	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/25/13 04:03	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/25/13 04:03	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/25/13 04:03	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/25/13 04:03	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/25/13 04:03	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/25/13 04:03	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/25/13 04:03	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/25/13 04:03	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/25/13 04:03	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/25/13 04:03	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/25/13 04:03	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/25/13 04:03	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/25/13 04:03	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/25/13 04:03	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/25/13 04:03	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/25/13 04:03	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/25/13 04:03	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/25/13 04:03	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/25/13 04:03	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 04:03	JKG	

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Description: 3301-MW3B
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C216021-01
Sampled: 01/21/13 11:45
Sampled By: gerald Paul/ Bob Bryant

Received: 01/23/13 09:10
Work Order: C216021

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
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/25/13 04:03	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/25/13 04:03	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/25/13 04:03	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*105 %*	*51-122*	*3A23026*	*EPA 8260B*	*01/25/13 04:03*	*JKG*	
Dibromofluoromethane	*55*	*1*	*50.0*	*109 %*	*68-117*	*3A23026*	*EPA 8260B*	*01/25/13 04:03*	*JKG*	
Toluene-d8	*52*	*1*	*50.0*	*105 %*	*67-127*	*3A23026*	*EPA 8260B*	*01/25/13 04:03*	*JKG*	

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Description: 3301-MW3B
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C216021-01
Sampled: 01/21/13 11:45
Sampled By: gerald Paul/ Bob Bryant

Received: 01/23/13 09:10
Work Order: C216021

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	01/29/13 13:03	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 12:20	JDH	
Barium [7440-39-3] ^	**124**		ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 12:20	JDH	
Beryllium [7440-41-7] ^	**1.56**		ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 12:20	JDH	
Cadmium [7440-43-9] ^	**0.422**	J	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 12:20	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 12:20	JDH	
Cobalt [7440-48-4] ^	**27.1**		ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 12:20	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 12:20	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:20	JDH	
Nickel [7440-02-0] ^	**29.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 12:20	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 13:03	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:20	JDH	
Thallium [7440-28-0] ^	**0.117**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 13:03	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 12:20	JDH	
Zinc [7440-66-6] ^	**53.3**		ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 12:20	JDH	

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

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Description: 3301-MW4 | **Lab Sample ID:** C216021-02 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 11:04 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/25/13 04:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/25/13 04:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/25/13 04:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/25/13 04:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/25/13 04:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/25/13 04:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/25/13 04:32	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/25/13 04:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/25/13 04:32	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/25/13 04:32	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/25/13 04:32	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/25/13 04:32	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/25/13 04:32	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/25/13 04:32	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/25/13 04:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/25/13 04:32	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/25/13 04:32	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/25/13 04:32	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/25/13 04:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/25/13 04:32	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/25/13 04:32	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/25/13 04:32	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/25/13 04:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/25/13 04:32	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/25/13 04:32	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/25/13 04:32	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/25/13 04:32	JKG	

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Description: 3301-MW4 | **Lab Sample ID:** C216021-02 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 11:04 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/25/13 04:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*51-122*	*3A23026*	*EPA 8260B*	*01/25/13 04:32*	*JKG*	
Dibromofluoromethane	*56*	*1*	*50.0*	*112 %*	*68-117*	*3A23026*	*EPA 8260B*	*01/25/13 04:32*	*JKG*	
Toluene-d8	*52*	*1*	*50.0*	*103 %*	*67-127*	*3A23026*	*EPA 8260B*	*01/25/13 04:32*	*JKG*	

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Description: 3301-MW4 | **Lab Sample ID:** C216021-02 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 11:04 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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] ^	**1.30**	J	ug/L	1	0.220	2.00	6	EPA 6020A	01/29/13 12:43	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 12:36	JDH	
Barium [7440-39-3] ^	**102**		ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 12:36	JDH	
Beryllium [7440-41-7] ^	**0.188**	J	ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 12:36	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 12:36	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 12:36	JDH	
Cobalt [7440-48-4] ^	**1.52**	J	ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 12:36	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 12:36	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:36	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 12:36	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 12:43	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:36	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 12:43	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 12:36	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 12:36	JDH	

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

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Description: 3301-MW5 | **Lab Sample ID:** C216021-03 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 14:00 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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] ^	0.85	UD	ug/L	5	0.85	5.0	5	EPA 8260B	01/25/13 05:01	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.60	UD	ug/L	5	0.60	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	1.4	UD	ug/L	5	1.4	5.0	3	EPA 8260B	01/25/13 05:01	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.70	UD	ug/L	5	0.70	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
1,1-Dichloroethane [75-34-3] ^	**6.0**	D	ug/L	5	0.65	5.0	5	EPA 8260B	01/25/13 05:01	JKG	
1,1-Dichloroethene [75-35-4] ^	1.0	UD	ug/L	5	1.0	5.0	5	EPA 8260B	01/25/13 05:01	JKG	
1,2,3-Trichloropropane [96-18-4] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	2.4	UD	ug/L	5	2.4	5.0	13	EPA 8260B	01/25/13 05:01	JKG	
1,2-Dibromoethane [106-93-4] ^	3.3	UD	ug/L	5	3.3	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.95	UD	ug/L	5	0.95	5.0	5	EPA 8260B	01/25/13 05:01	JKG	
1,2-Dichloroethane [107-06-2] ^	1.0	UD	ug/L	5	1.0	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
1,2-Dichloropropane [78-87-5] ^	0.50	UD	ug/L	5	0.50	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**10**	D	ug/L	5	0.95	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
2-Butanone [78-93-3] ^	6.5	UD	ug/L	5	6.5	25	100	EPA 8260B	01/25/13 05:01	JKG	
2-Hexanone [591-78-6] ^	4.4	UD	ug/L	5	4.4	25	50	EPA 8260B	01/25/13 05:01	JKG	
4-Methyl-2-pentanone [108-10-1] ^	5.5	UD	ug/L	5	5.5	25	100	EPA 8260B	01/25/13 05:01	JKG	
Acetone [67-64-1] ^	6.0	UD	ug/L	5	6.0	25	100	EPA 8260B	01/25/13 05:01	JKG	
Acrylonitrile [107-13-1] ^	18	UD	ug/L	5	18	50	200	EPA 8260B	01/25/13 05:01	JKG	
Benzene [71-43-2] ^	**4.4**	JD	ug/L	5	0.75	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
Bromochloromethane [74-97-5] ^	2.4	UD	ug/L	5	2.4	5.0	3	EPA 8260B	01/25/13 05:01	JKG	
Bromodichloromethane [75-27-4] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
Bromoform [75-25-2] ^	1.1	UD	ug/L	5	1.1	5.0	3	EPA 8260B	01/25/13 05:01	JKG	
Bromomethane [74-83-9] ^	0.70	UD	ug/L	5	0.70	5.0	10	EPA 8260B	01/25/13 05:01	JKG	
Carbon disulfide [75-15-0] ^	7.5	UD	ug/L	5	7.5	25	100	EPA 8260B	01/25/13 05:01	JKG	
Carbon tetrachloride [56-23-5] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
Chlorobenzene [108-90-7] ^	**15**	D	ug/L	5	0.85	5.0	3	EPA 8260B	01/25/13 05:01	JKG	
Chloroethane [75-00-3] ^	1.2	UD	ug/L	5	1.2	5.0	10	EPA 8260B	01/25/13 05:01	JKG	
Chloroform [67-66-3] ^	0.90	UD	ug/L	5	0.90	5.0	5	EPA 8260B	01/25/13 05:01	JKG	
Chloromethane [74-87-3] ^	0.65	UD	ug/L	5	0.65	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**500**	D	ug/L	5	0.75	5.0	5	EPA 8260B	01/25/13 05:01	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	1.0	UD	ug/L	5	1.0	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
Dibromochloromethane [124-48-1] ^	0.85	UD	ug/L	5	0.85	5.0	3	EPA 8260B	01/25/13 05:01	JKG	
Dibromomethane [74-95-3] ^	1.4	UD	ug/L	5	1.4	5.0	10	EPA 8260B	01/25/13 05:01	JKG	
Ethylbenzene [100-41-4] ^	0.65	UD	ug/L	5	0.65	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
Iodomethane [74-88-4] ^	8.5	UD	ug/L	5	8.5	25	10	EPA 8260B	01/25/13 05:01	JKG	
Methylene chloride [75-09-2] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
Styrene [100-42-5] ^	0.55	UD	ug/L	5	0.55	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
Tetrachloroethene [127-18-4] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
Toluene [108-88-3] ^	0.70	UD	ug/L	5	0.70	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	**3.5**	JD	ug/L	5	1.0	5.0	5	EPA 8260B	01/25/13 05:01	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.75	UD	ug/L	5	0.75	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	3.5	UD	ug/L	5	3.5	5.0	100	EPA 8260B	01/25/13 05:01	JKG	
Trichloroethene [79-01-6] ^	0.75	UD	ug/L	5	0.75	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
Trichlorofluoromethane [75-69-4] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	01/25/13 05:01	JKG	
Vinyl acetate [108-05-4] ^	4.8	UD	ug/L	5	4.8	25	50	EPA 8260B	01/25/13 05:01	JKG	
Vinyl chloride [75-01-4] ^	**24**	D	ug/L	5	1.6	5.0	1	EPA 8260B	01/25/13 05:01	JKG	

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Description: 3301-MW5 | **Lab Sample ID:** C216021-03 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 14:00 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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] ^	2.2	UD	ug/L	5	2.2	15	5	EPA 8260B	01/25/13 05:01	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*51-122*	*3A23026*	*EPA 8260B*	*01/25/13 05:01*	*JKG*	
Dibromofluoromethane	*56*	*1*	*50.0*	*113 %*	*68-117*	*3A23026*	*EPA 8260B*	*01/25/13 05:01*	*JKG*	
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*67-127*	*3A23026*	*EPA 8260B*	*01/25/13 05:01*	*JKG*	

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Description: 3301-MW5 | **Lab Sample ID:** C216021-03 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 14:00 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/29/13 13:07	VLO	
Arsenic [7440-38-2] ^	**22.3**		ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 12:38	JDH	
Barium [7440-39-3] ^	**256**		ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 12:38	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 12:38	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 12:38	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 12:38	JDH	
Cobalt [7440-48-4] ^	**191**		ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 12:38	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 12:38	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:38	JDH	
Nickel [7440-02-0] ^	**49.4**	J	ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 12:38	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 13:07	VLO	
Silver [7440-22-4] ^	**7.01**	J	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:38	JDH	
Thallium [7440-28-0] ^	**0.164**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 13:07	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 12:38	JDH	
Zinc [7440-66-6] ^	**68.3**		ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 12:38	JDH	

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

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Description: 3301-MW6 | **Lab Sample ID:** C216021-04 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 17:05 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/25/13 05:31	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/25/13 05:31	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/25/13 05:31	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/25/13 05:31	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/25/13 05:31	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/25/13 05:31	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/25/13 05:31	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/25/13 05:31	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/25/13 05:31	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/25/13 05:31	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/25/13 05:31	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/25/13 05:31	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/25/13 05:31	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/25/13 05:31	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/25/13 05:31	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/25/13 05:31	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/25/13 05:31	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/25/13 05:31	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/25/13 05:31	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/25/13 05:31	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/25/13 05:31	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/25/13 05:31	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/25/13 05:31	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/25/13 05:31	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/25/13 05:31	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/25/13 05:31	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/25/13 05:31	JKG	

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Description: 3301-MW6 | **Lab Sample ID:** C216021-04 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 17:05 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/25/13 05:31	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*106 %*	*51-122*	*3A23026*	*EPA 8260B*	*01/25/13 05:31*	*JKG*	
Dibromofluoromethane	*55*	*1*	*50.0*	*111 %*	*68-117*	*3A23026*	*EPA 8260B*	*01/25/13 05:31*	*JKG*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*67-127*	*3A23026*	*EPA 8260B*	*01/25/13 05:31*	*JKG*	

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Description: 3301-MW6 | **Lab Sample ID:** C216021-04 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 17:05 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/29/13 13:11	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 12:41	JDH	
Barium [7440-39-3] ^	**210**		ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 12:41	JDH	
Beryllium [7440-41-7] ^	**0.326**	J	ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 12:41	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 12:41	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 12:41	JDH	
Cobalt [7440-48-4] ^	**16.9**		ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 12:41	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 12:41	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:41	JDH	
Nickel [7440-02-0] ^	**8.05**	J	ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 12:41	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 13:11	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:41	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 13:11	VLO	
Vanadium [7440-62-2] ^	**1.43**	J	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 12:41	JDH	
Zinc [7440-66-6] ^	**39.2**		ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 12:41	JDH	

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

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Description: 3301-MW7A | **Lab Sample ID:** C216021-05 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 17:45 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/25/13 06:00	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/25/13 06:00	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/25/13 06:00	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/25/13 06:00	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/25/13 06:00	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/25/13 06:00	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**1.6**		ug/L	1	0.19	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/25/13 06:00	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/25/13 06:00	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/25/13 06:00	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/25/13 06:00	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/25/13 06:00	JKG	
Benzene [71-43-2] ^	**2.8**		ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/25/13 06:00	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/25/13 06:00	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/25/13 06:00	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/25/13 06:00	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
Chlorobenzene [108-90-7] ^	**4.2**		ug/L	1	0.17	1.0	3	EPA 8260B	01/25/13 06:00	JKG	
Chloroethane [75-00-3] ^	**1.6**	J	ug/L	1	0.23	1.0	10	EPA 8260B	01/25/13 06:00	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/25/13 06:00	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.54**	J	ug/L	1	0.15	1.0	5	EPA 8260B	01/25/13 06:00	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/25/13 06:00	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/25/13 06:00	JKG	
Ethylbenzene [100-41-4] ^	**0.54**	J	ug/L	1	0.13	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/25/13 06:00	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/25/13 06:00	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/25/13 06:00	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/25/13 06:00	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/25/13 06:00	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/25/13 06:00	JKG	

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Description: 3301-MW7A
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C216021-05
Sampled: 01/21/13 17:45
Sampled By: gerald Paul/ Bob Bryant

Received: 01/23/13 09:10
Work Order: C216021

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	01/25/13 06:00	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*51-122*	*3A23026*	*EPA 8260B*	*01/25/13 06:00*	*JKG*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*68-117*	*3A23026*	*EPA 8260B*	*01/25/13 06:00*	*JKG*	
Toluene-d8	*53*	*1*	*50.0*	*105 %*	*67-127*	*3A23026*	*EPA 8260B*	*01/25/13 06:00*	*JKG*	

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Description: 3301-MW7A
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C216021-05
Sampled: 01/21/13 17:45
Sampled By: gerald Paul/ Bob Bryant

Received: 01/23/13 09:10
Work Order: C216021

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	01/29/13 13:23	VLO	
Arsenic [7440-38-2] ^	28.0	UD	ug/L	10	28.0	100	10	EPA 6010C	01/25/13 13:08	JDH	R-05
Barium [7440-39-3] ^	**221**	D	ug/L	10	10.0	100	100	EPA 6010C	01/25/13 13:08	JDH	R-05
Beryllium [7440-41-7] ^	1.00	UD	ug/L	10	1.00	10.0	1	EPA 6010C	01/25/13 13:08	JDH	R-05
Cadmium [7440-43-9] ^	3.60	UD	ug/L	10	3.60	10.0	1	EPA 6010C	01/25/13 13:08	JDH	R-05
Chromium [7440-47-3] ^	10.0	UD	ug/L	10	10.0	100	10	EPA 6010C	01/25/13 13:08	JDH	R-05
Cobalt [7440-48-4] ^	11.0	UD	ug/L	10	11.0	100	10	EPA 6010C	01/25/13 13:08	JDH	R-05
Copper [7440-50-8] ^	16.0	UD	ug/L	10	16.0	100	10	EPA 6010C	01/25/13 13:08	JDH	R-05
Lead [7439-92-1] ^	19.0	UD	ug/L	10	19.0	100	10	EPA 6010C	01/25/13 13:08	JDH	R-05
Nickel [7440-02-0] ^	18.0	UD	ug/L	10	18.0	100	50	EPA 6010C	01/25/13 13:08	JDH	R-05
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 13:23	VLO	
Silver [7440-22-4] ^	19.0	UD	ug/L	10	19.0	100	10	EPA 6010C	01/25/13 13:08	JDH	R-05
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 13:23	VLO	
Vanadium [7440-62-2] ^	14.0	UD	ug/L	10	14.0	100	25	EPA 6010C	01/25/13 13:08	JDH	R-05
Zinc [7440-66-6] ^	**8.74**	J	ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 12:43	JDH	

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

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Description: 3301-MW9 | **Lab Sample ID:** C216021-06 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 12:45 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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

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Description: 3301-MW9 | **Lab Sample ID:** C216021-06 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 12:45 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/25/13 06:29	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*110 %*	*51-122*	*3A23026*	*EPA 8260B*	*01/25/13 06:29*	*JKG*	
Dibromofluoromethane	*66*	*1*	*50.0*	*133 %*	*68-117*	*3A23026*	*EPA 8260B*	*01/25/13 06:29*	*JKG*	*QS-03*
Toluene-d8	*52*	*1*	*50.0*	*105 %*	*67-127*	*3A23026*	*EPA 8260B*	*01/25/13 06:29*	*JKG*	

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Description: 3301-MW9 | **Lab Sample ID:** C216021-06 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 12:45 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/29/13 13:27	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 12:46	JDH	
Barium [7440-39-3] ^	**122**		ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 12:46	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 12:46	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 12:46	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 12:46	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 12:46	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 12:46	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:46	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 12:46	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 13:27	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:46	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 13:27	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 12:46	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 12:46	JDH	

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

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Description: 3301-MW12 | **Lab Sample ID:** C216021-07 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 11:05 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/25/13 06:59	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/25/13 06:59	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.96**	J	ug/L	1	0.13	1.0	5	EPA 8260B	01/25/13 06:59	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/25/13 06:59	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/25/13 06:59	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/25/13 06:59	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**7.0**		ug/L	1	0.19	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/25/13 06:59	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/25/13 06:59	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/25/13 06:59	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/25/13 06:59	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/25/13 06:59	JKG	
Benzene [71-43-2] ^	**3.6**		ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/25/13 06:59	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/25/13 06:59	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/25/13 06:59	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/25/13 06:59	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
Chlorobenzene [108-90-7] ^	**3.9**		ug/L	1	0.17	1.0	3	EPA 8260B	01/25/13 06:59	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/25/13 06:59	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/25/13 06:59	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.65**	J	ug/L	1	0.15	1.0	5	EPA 8260B	01/25/13 06:59	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/25/13 06:59	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/25/13 06:59	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/25/13 06:59	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/25/13 06:59	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/25/13 06:59	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/25/13 06:59	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/25/13 06:59	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/25/13 06:59	JKG	

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Description: 3301-MW12 | **Lab Sample ID:** C216021-07 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 11:05 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/25/13 06:59	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*51-122*	*3A23026*	*EPA 8260B*	*01/25/13 06:59*	*JKG*	
Dibromofluoromethane	*56*	*1*	*50.0*	*112 %*	*68-117*	*3A23026*	*EPA 8260B*	*01/25/13 06:59*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*67-127*	*3A23026*	*EPA 8260B*	*01/25/13 06:59*	*JKG*	

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Description: 3301-MW12 | **Lab Sample ID:** C216021-07 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 11:05 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/29/13 13:31	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 12:48	JDH	
Barium [7440-39-3] ^	**275**		ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 12:48	JDH	
Beryllium [7440-41-7] ^	**0.462**	J	ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 12:48	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 12:48	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 12:48	JDH	
Cobalt [7440-48-4] ^	**16.7**		ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 12:48	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 12:48	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:48	JDH	
Nickel [7440-02-0] ^	**20.4**	J	ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 12:48	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 13:31	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:48	JDH	
Thallium [7440-28-0] ^	**0.173**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 13:31	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 12:48	JDH	
Zinc [7440-66-6] ^	**163**		ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 12:48	JDH	

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

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Description: 3301-MW13 | **Lab Sample ID:** C216021-08 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 13:25 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/25/13 08:06	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/25/13 08:06	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/25/13 08:06	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/25/13 08:06	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/25/13 08:06	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/25/13 08:06	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**1.6**		ug/L	1	0.19	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/25/13 08:06	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/25/13 08:06	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/25/13 08:06	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/25/13 08:06	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/25/13 08:06	JKG	
Benzene [71-43-2] ^	**0.51**	J	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/25/13 08:06	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/25/13 08:06	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/25/13 08:06	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/25/13 08:06	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
Chlorobenzene [108-90-7] ^	**6.3**		ug/L	1	0.17	1.0	3	EPA 8260B	01/25/13 08:06	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/25/13 08:06	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/25/13 08:06	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**5.7**		ug/L	1	0.15	1.0	5	EPA 8260B	01/25/13 08:06	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/25/13 08:06	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/25/13 08:06	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/25/13 08:06	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/25/13 08:06	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/25/13 08:06	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/25/13 08:06	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/25/13 08:06	JKG	
Vinyl chloride [75-01-4] ^	**0.63**	J	ug/L	1	0.32	1.0	1	EPA 8260B	01/25/13 08:06	JKG	

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Description: 3301-MW13 | **Lab Sample ID:** C216021-08 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 13:25 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/25/13 08:06	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*3A24008*	*EPA 8260B*	*01/25/13 08:06*	*JKG*	
Dibromofluoromethane	*41*	*1*	*50.0*	*83 %*	*68-117*	*3A24008*	*EPA 8260B*	*01/25/13 08:06*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*88 %*	*67-127*	*3A24008*	*EPA 8260B*	*01/25/13 08:06*	*JKG*	

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Description: 3301-MW13 | **Lab Sample ID:** C216021-08 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 13:25 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/29/13 13:35	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 12:51	JDH	
Barium [7440-39-3] ^	**252**		ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 12:51	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 12:51	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 12:51	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 12:51	JDH	
Cobalt [7440-48-4] ^	**1150**		ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 12:51	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 12:51	JDH	
Lead [7439-92-1] ^	**4.17**	J	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:51	JDH	
Nickel [7440-02-0] ^	**273**		ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 12:51	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 13:35	VLO	
Silver [7440-22-4] ^	**10.2**		ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:51	JDH	
Thallium [7440-28-0] ^	**1.10**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 13:35	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 12:51	JDH	
Zinc [7440-66-6] ^	**155**		ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 12:51	JDH	

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

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Description: 3301-MW14 | **Lab Sample ID:** C216021-09 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 14:50 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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

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Description: 3301-MW14 | **Lab Sample ID:** C216021-09 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 14:50 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/24/13 12:10	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*3A24001*	*EPA 8260B*	*01/24/13 12:10*	*JKG*	
Dibromofluoromethane	*40*	*1*	*50.0*	*80 %*	*68-117*	*3A24001*	*EPA 8260B*	*01/24/13 12:10*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*87 %*	*67-127*	*3A24001*	*EPA 8260B*	*01/24/13 12:10*	*JKG*	

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Description: 3301-MW14 | **Lab Sample ID:** C216021-09 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 14:50 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/29/13 13:39	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 12:53	JDH	
Barium [7440-39-3] ^	**238**		ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 12:53	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 12:53	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 12:53	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 12:53	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 12:53	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 12:53	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:53	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 12:53	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 13:39	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:53	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 13:39	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 12:53	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 12:53	JDH	

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

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Description: 3301-MW15 | **Lab Sample ID:** C216021-10 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 09:45 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/24/13 12:40	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/24/13 12:40	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.69**	J	ug/L	1	0.13	1.0	5	EPA 8260B	01/24/13 12:40	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/24/13 12:40	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/24/13 12:40	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/24/13 12:40	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
1,2-Dichloropropane [78-87-5] ^	**1.2**		ug/L	1	0.10	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/24/13 12:40	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/24/13 12:40	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/24/13 12:40	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/24/13 12:40	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/24/13 12:40	JKG	
Benzene [71-43-2] ^	**0.64**	J	ug/L	1	0.15	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/24/13 12:40	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/24/13 12:40	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/24/13 12:40	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/24/13 12:40	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
Chlorobenzene [108-90-7] ^	**1.6**	J	ug/L	1	0.17	1.0	3	EPA 8260B	01/24/13 12:40	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/24/13 12:40	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/24/13 12:40	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**15**		ug/L	1	0.15	1.0	5	EPA 8260B	01/24/13 12:40	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/24/13 12:40	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/24/13 12:40	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/24/13 12:40	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	**0.68**	J	ug/L	1	0.21	1.0	5	EPA 8260B	01/24/13 12:40	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/24/13 12:40	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/24/13 12:40	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/24/13 12:40	JKG	
Vinyl chloride [75-01-4] ^	**3.3**		ug/L	1	0.32	1.0	1	EPA 8260B	01/24/13 12:40	JKG	

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Description: 3301-MW15 | **Lab Sample ID:** C216021-10 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 09:45 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/24/13 12:40	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*3A24001*	*EPA 8260B*	*01/24/13 12:40*	*JKG*	
Dibromofluoromethane	*39*	*1*	*50.0*	*79 %*	*68-117*	*3A24001*	*EPA 8260B*	*01/24/13 12:40*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*67-127*	*3A24001*	*EPA 8260B*	*01/24/13 12:40*	*JKG*	

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Description: 3301-MW15 | **Lab Sample ID:** C216021-10 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 09:45 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/29/13 13:43	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 12:56	JDH	
Barium [7440-39-3] ^	**378**		ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 12:56	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 12:56	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 12:56	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 12:56	JDH	
Cobalt [7440-48-4] ^	**15.0**		ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 12:56	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 12:56	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:56	JDH	
Nickel [7440-02-0] ^	**9.62**	J	ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 12:56	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 13:43	VLO	
Silver [7440-22-4] ^	**4.89**	J	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:56	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 13:43	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 12:56	JDH	
Zinc [7440-66-6] ^	**3.85**	J	ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 12:56	JDH	

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

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Description: 3301-MW16 | **Lab Sample ID:** C216021-11 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 16:00 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/24/13 13:11	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/24/13 13:11	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/24/13 13:11	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/24/13 13:11	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/24/13 13:11	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/24/13 13:11	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/24/13 13:11	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/24/13 13:11	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/24/13 13:11	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/24/13 13:11	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/24/13 13:11	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/24/13 13:11	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/24/13 13:11	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/24/13 13:11	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/24/13 13:11	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/24/13 13:11	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/24/13 13:11	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/24/13 13:11	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/24/13 13:11	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/24/13 13:11	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/24/13 13:11	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/24/13 13:11	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/24/13 13:11	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/24/13 13:11	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/24/13 13:11	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/24/13 13:11	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/24/13 13:11	JKG	

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Description: 3301-MW16 | **Lab Sample ID:** C216021-11 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 16:00 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/24/13 13:11	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*51-122*	*3A24001*	*EPA 8260B*	*01/24/13 13:11*	*JKG*	
Dibromofluoromethane	*39*	*1*	*50.0*	*78 %*	*68-117*	*3A24001*	*EPA 8260B*	*01/24/13 13:11*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*67-127*	*3A24001*	*EPA 8260B*	*01/24/13 13:11*	*JKG*	

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Description: 3301-MW16 | **Lab Sample ID:** C216021-11 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 16:00 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/29/13 13:47	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 12:58	JDH	
Barium [7440-39-3] ^	**328**		ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 12:58	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 12:58	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 12:58	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 12:58	JDH	
Cobalt [7440-48-4] ^	**2.10**	J	ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 12:58	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 12:58	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:58	JDH	
Nickel [7440-02-0] ^	**2.45**	J	ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 12:58	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 13:47	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 12:58	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 13:47	VLO	
Vanadium [7440-62-2] ^	**1.63**	J	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 12:58	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 12:58	JDH	

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

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Description: 3301-SW1 | **Lab Sample ID:** C216021-12 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 11:15 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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

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Description: 3301-SW1 | **Lab Sample ID:** C216021-12 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 11:15 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/24/13 13:41	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*51-122*	*3A24001*	*EPA 8260B*	*01/24/13 13:41*	*JKG*	
Dibromofluoromethane	*39*	*1*	*50.0*	*79 %*	*68-117*	*3A24001*	*EPA 8260B*	*01/24/13 13:41*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*67-127*	*3A24001*	*EPA 8260B*	*01/24/13 13:41*	*JKG*	

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Description: 3301-SW1 | **Lab Sample ID:** C216021-12 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 11:15 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/29/13 13:51	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 13:15	JDH	
Barium [7440-39-3] ^	**66.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 13:15	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 13:15	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 13:15	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 13:15	JDH	
Cobalt [7440-48-4] ^	**1.48**	J	ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 13:15	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 13:15	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 13:15	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 13:15	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 13:51	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 13:15	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 13:51	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 13:15	JDH	
Zinc [7440-66-6] ^	**5.81**	J	ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 13:15	JDH	

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

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Description: 3301-SW2 | **Lab Sample ID:** C216021-13 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 16:10 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/24/13 14:10	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/24/13 14:10	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/24/13 14:10	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/24/13 14:10	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/24/13 14:10	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/24/13 14:10	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/24/13 14:10	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/24/13 14:10	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/24/13 14:10	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/24/13 14:10	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/24/13 14:10	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/24/13 14:10	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/24/13 14:10	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/24/13 14:10	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/24/13 14:10	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/24/13 14:10	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/24/13 14:10	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/24/13 14:10	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/24/13 14:10	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/24/13 14:10	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/24/13 14:10	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/24/13 14:10	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/24/13 14:10	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/24/13 14:10	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/24/13 14:10	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/24/13 14:10	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/24/13 14:10	JKG	

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Description: 3301-SW2 | **Lab Sample ID:** C216021-13 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 16:10 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/24/13 14:10	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*87 %*	*51-122*	*3A24001*	*EPA 8260B*	*01/24/13 14:10*	*JKG*	
Dibromofluoromethane	*39*	*1*	*50.0*	*77 %*	*68-117*	*3A24001*	*EPA 8260B*	*01/24/13 14:10*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*85 %*	*67-127*	*3A24001*	*EPA 8260B*	*01/24/13 14:10*	*JKG*	

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Description: 3301-SW2 | **Lab Sample ID:** C216021-13 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 16:10 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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	01/29/13 13:55	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 13:17	JDH	
Barium [7440-39-3] ^	**66.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 13:17	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 13:17	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 13:17	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 13:17	JDH	
Cobalt [7440-48-4] ^	**2.43**	J	ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 13:17	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 13:17	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 13:17	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 13:17	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 13:55	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 13:17	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 13:55	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 13:17	JDH	
Zinc [7440-66-6] ^	**5.75**	J	ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 13:17	JDH	

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

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Description: 3301-Duplicate
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C216021-14
Sampled: 01/22/13 08:00
Sampled By: gerald Paul/ Bob Bryant

Received: 01/23/13 09:10
Work Order: C216021

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] ^	0.85	UD	ug/L	5	0.85	5.0	5	EPA 8260B	01/25/13 12:35	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.60	UD	ug/L	5	0.60	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	1.4	UD	ug/L	5	1.4	5.0	3	EPA 8260B	01/25/13 12:35	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.70	UD	ug/L	5	0.70	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
1,1-Dichloroethane [75-34-3] ^	**6.6**	D	ug/L	5	0.65	5.0	5	EPA 8260B	01/25/13 12:35	JKG	
1,1-Dichloroethene [75-35-4] ^	1.0	UD	ug/L	5	1.0	5.0	5	EPA 8260B	01/25/13 12:35	JKG	
1,2,3-Trichloropropane [96-18-4] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	2.4	UD	ug/L	5	2.4	5.0	13	EPA 8260B	01/25/13 12:35	JKG	
1,2-Dibromoethane [106-93-4] ^	3.3	UD	ug/L	5	3.3	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.95	UD	ug/L	5	0.95	5.0	5	EPA 8260B	01/25/13 12:35	JKG	
1,2-Dichloroethane [107-06-2] ^	1.0	UD	ug/L	5	1.0	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
1,2-Dichloropropane [78-87-5] ^	0.50	UD	ug/L	5	0.50	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**11**	D	ug/L	5	0.95	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
2-Butanone [78-93-3] ^	6.5	UD	ug/L	5	6.5	25	100	EPA 8260B	01/25/13 12:35	JKG	
2-Hexanone [591-78-6] ^	4.4	UD	ug/L	5	4.4	25	50	EPA 8260B	01/25/13 12:35	JKG	
4-Methyl-2-pentanone [108-10-1] ^	5.5	UD	ug/L	5	5.5	25	100	EPA 8260B	01/25/13 12:35	JKG	
Acetone [67-64-1] ^	6.0	UD	ug/L	5	6.0	25	100	EPA 8260B	01/25/13 12:35	JKG	
Acrylonitrile [107-13-1] ^	18	UD	ug/L	5	18	50	200	EPA 8260B	01/25/13 12:35	JKG	
Benzene [71-43-2] ^	**4.4**	JD	ug/L	5	0.75	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
Bromochloromethane [74-97-5] ^	2.4	UD	ug/L	5	2.4	5.0	3	EPA 8260B	01/25/13 12:35	JKG	
Bromodichloromethane [75-27-4] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
Bromoform [75-25-2] ^	1.1	UD	ug/L	5	1.1	5.0	3	EPA 8260B	01/25/13 12:35	JKG	
Bromomethane [74-83-9] ^	0.70	UD	ug/L	5	0.70	5.0	10	EPA 8260B	01/25/13 12:35	JKG	
Carbon disulfide [75-15-0] ^	7.5	UD	ug/L	5	7.5	25	100	EPA 8260B	01/25/13 12:35	JKG	
Carbon tetrachloride [56-23-5] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
Chlorobenzene [108-90-7] ^	**17**	D	ug/L	5	0.85	5.0	3	EPA 8260B	01/25/13 12:35	JKG	
Chloroethane [75-00-3] ^	1.2	UD	ug/L	5	1.2	5.0	10	EPA 8260B	01/25/13 12:35	JKG	
Chloroform [67-66-3] ^	0.90	UD	ug/L	5	0.90	5.0	5	EPA 8260B	01/25/13 12:35	JKG	
Chloromethane [74-87-3] ^	0.65	UD	ug/L	5	0.65	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**530**	D	ug/L	5	0.75	5.0	5	EPA 8260B	01/25/13 12:35	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	1.0	UD	ug/L	5	1.0	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
Dibromochloromethane [124-48-1] ^	0.85	UD	ug/L	5	0.85	5.0	3	EPA 8260B	01/25/13 12:35	JKG	
Dibromomethane [74-95-3] ^	1.4	UD	ug/L	5	1.4	5.0	10	EPA 8260B	01/25/13 12:35	JKG	
Ethylbenzene [100-41-4] ^	0.65	UD	ug/L	5	0.65	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
Iodomethane [74-88-4] ^	8.5	UD	ug/L	5	8.5	25	10	EPA 8260B	01/25/13 12:35	JKG	
Methylene chloride [75-09-2] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
Styrene [100-42-5] ^	0.55	UD	ug/L	5	0.55	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
Tetrachloroethene [127-18-4] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
Toluene [108-88-3] ^	0.70	UD	ug/L	5	0.70	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	**3.4**	JD	ug/L	5	1.0	5.0	5	EPA 8260B	01/25/13 12:35	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.75	UD	ug/L	5	0.75	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	3.5	UD	ug/L	5	3.5	5.0	100	EPA 8260B	01/25/13 12:35	JKG	
Trichloroethene [79-01-6] ^	0.75	UD	ug/L	5	0.75	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
Trichlorofluoromethane [75-69-4] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	01/25/13 12:35	JKG	
Vinyl acetate [108-05-4] ^	4.8	UD	ug/L	5	4.8	25	50	EPA 8260B	01/25/13 12:35	JKG	
Vinyl chloride [75-01-4] ^	**24**	D	ug/L	5	1.6	5.0	1	EPA 8260B	01/25/13 12:35	JKG	

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Description:	3301-Duplicate	**Lab Sample ID:**	C216021-14	**Received:**	01/23/13 09:10
Matrix:	Ground Water	**Sampled:**	01/22/13 08:00	**Work Order:**	C216021
Project:	Edgecombe County Landfill - App I	**Sampled By:**	gerald Paul/ Bob Bryant		

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] ^	2.2	UD	ug/L	5	2.2	15	5	EPA 8260B	01/25/13 12:35	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*3A25001*	*EPA 8260B*	*01/25/13 12:35*	*JKG*	
Dibromofluoromethane	*40*	*1*	*50.0*	*79 %*	*68-117*	*3A25001*	*EPA 8260B*	*01/25/13 12:35*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*67-127*	*3A25001*	*EPA 8260B*	*01/25/13 12:35*	*JKG*	

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Description: 3301-Duplicate
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C216021-14
Sampled: 01/22/13 08:00
Sampled By: gerald Paul/ Bob Bryant

Received: 01/23/13 09:10
Work Order: C216021

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	01/29/13 13:59	VLO	
Arsenic [7440-38-2] ^	**29.1**		ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 13:20	JDH	
Barium [7440-39-3] ^	**255**		ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 13:20	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 13:20	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 13:20	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 13:20	JDH	
Cobalt [7440-48-4] ^	**191**		ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 13:20	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 13:20	JDH	
Lead [7439-92-1] ^	**2.32**	J	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 13:20	JDH	
Nickel [7440-02-0] ^	**48.6**	J	ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 13:20	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 13:59	VLO	
Silver [7440-22-4] ^	**6.53**	J	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 13:20	JDH	
Thallium [7440-28-0] ^	**0.112**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 13:59	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 13:20	JDH	
Zinc [7440-66-6] ^	**68.0**		ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 13:20	JDH	

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

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Description: 3301-Equipment Blank | **Lab Sample ID:** C216021-15 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/22/13 16:00 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** gerald Paul/ Bob Bryant

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

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Description: 3301-Equipment Blank
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C216021-15
Sampled: 01/22/13 16:00
Sampled By: gerald Paul/ Bob Bryant

Received: 01/23/13 09:10
Work Order: C216021

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	01/24/13 15:10	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*87 %*	*51-122*	*3A24001*	*EPA 8260B*	*01/24/13 15:10*	*JKG*	
Dibromofluoromethane	*39*	*1*	*50.0*	*78 %*	*68-117*	*3A24001*	*EPA 8260B*	*01/24/13 15:10*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*67-127*	*3A24001*	*EPA 8260B*	*01/24/13 15:10*	*JKG*	

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Description: 3301-Equipment Blank
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C216021-15
Sampled: 01/22/13 16:00
Sampled By: gerald Paul/ Bob Bryant

Received: 01/23/13 09:10
Work Order: C216021

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	01/29/13 14:11	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	01/25/13 13:23	JDH	
Barium [7440-39-3] ^	**1.20**	J	ug/L	1	1.00	10.0	100	EPA 6010C	01/25/13 13:23	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/25/13 13:23	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/25/13 13:23	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	01/25/13 13:23	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	01/25/13 13:23	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/25/13 13:23	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 13:23	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/25/13 13:23	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	01/29/13 14:11	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/25/13 13:23	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/29/13 14:11	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/25/13 13:23	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	01/25/13 13:23	JDH	

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

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Description: Trip Blank | **Lab Sample ID:** C216021-16 | **Received:** 01/23/13 09:10

Matrix: Ground Water | **Sampled:** 01/21/13 11:04 | **Work Order:** C216021

Project: Edgecombe County Landfill - App I | **Sampled By:** ENCO

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	01/24/13 15:40	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/24/13 15:40	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/24/13 15:40	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/24/13 15:40	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/24/13 15:40	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/24/13 15:40	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/24/13 15:40	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/24/13 15:40	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/24/13 15:40	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/24/13 15:40	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/24/13 15:40	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/24/13 15:40	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/24/13 15:40	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/24/13 15:40	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/24/13 15:40	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/24/13 15:40	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/24/13 15:40	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/24/13 15:40	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/24/13 15:40	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/24/13 15:40	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/24/13 15:40	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/24/13 15:40	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/24/13 15:40	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/24/13 15:40	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/24/13 15:40	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/24/13 15:40	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/24/13 15:40	JKG	

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Description: Trip Blank
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C216021-16
Sampled: 01/21/13 11:04
Sampled By: ENCO

Received: 01/23/13 09:10
Work Order: C216021

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	01/24/13 15:40	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*51-122*	*3A24001*	*EPA 8260B*	*01/24/13 15:40*	*JKG*	
Dibromofluoromethane	*41*	*1*	*50.0*	*82 %*	*68-117*	*3A24001*	*EPA 8260B*	*01/24/13 15:40*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*67-127*	*3A24001*	*EPA 8260B*	*01/24/13 15:40*	*JKG*	

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 3A23026 - EPA 5030B_MS

Blank (3A23026-BLK1) Prepared: 01/23/2013 13:35 Analyzed: 01/24/2013 21:12

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							
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	*55*			*ug/L*	*50.0*		*110*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3A23026 - EPA 5030B_MS

Blank (3A23026-BLK1) Continued Prepared: 01/23/2013 13:35 Analyzed: 01/24/2013 21:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*55*			*ug/L*	*50.0*		*109*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*104*	*67-127*			

LCS (3A23026-BS1) Prepared: 01/23/2013 13:35 Analyzed: 01/24/2013 21:42

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		95	75-133			
Benzene	18		1.0	ug/L	20.0		92	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Toluene	19		1.0	ug/L	20.0		95	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	74-119			

Matrix Spike (3A23026-MS1) Prepared: 01/23/2013 13:35 Analyzed: 01/24/2013 22:11

Source: C300689-11

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	0.21 U	99	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	95	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	100	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	91	74-119			

Matrix Spike Dup (3A23026-MSD1) Prepared: 01/23/2013 13:35 Analyzed: 01/24/2013 22:41

Source: C300689-11

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	112	75-133	13	20	
Benzene	22		1.0	ug/L	20.0	0.15 U	110	81-134	15	17	
Chlorobenzene	24		1.0	ug/L	20.0	0.17 U	118	83-117	17	16	QM-07
Toluene	23		1.0	ug/L	20.0	0.14 U	116	71-118	20	17	QM-11
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	109	74-119	19	22	

Batch 3A24001 - EPA 5030B_MS

Blank (3A24001-BLK1) Prepared: 01/24/2013 06:54 Analyzed: 01/24/2013 09:13

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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3A24001 - EPA 5030B_MS

Blank (3A24001-BLK1) Continued Prepared: 01/24/2013 06:54 Analyzed: 01/24/2013 09:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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							
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	*44*			*ug/L*	*50.0*		*87*	*51-122*			
Surrogate: Dibromofluoromethane	*39*			*ug/L*	*50.0*		*77*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*67-127*			

LCS (3A24001-BS1) Prepared: 01/24/2013 06:54 Analyzed: 01/24/2013 09:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		91	75-133			
Benzene	20		1.0	ug/L	20.0		98	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		104	83-117			
Toluene	21		1.0	ug/L	20.0		105	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3A24001 - EPA 5030B_MS

LCS (3A24001-BS1) Continued Prepared: 01/24/2013 06:54 Analyzed: 01/24/2013 09:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	19		1.0	ug/L	20.0		97	74-119			

Matrix Spike (3A24001-MS1) Prepared: 01/24/2013 06:54 Analyzed: 01/24/2013 10:13

Source: C300858-01

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	96	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	95	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	100	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	103	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	93	74-119			

Matrix Spike Dup (3A24001-MSD1) Prepared: 01/24/2013 06:54 Analyzed: 01/24/2013 10:42

Source: C300858-01

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	97	75-133	2	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	101	81-134	6	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117	4	16	
Toluene	21		1.0	ug/L	20.0	0.14 U	106	71-118	3	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	96	74-119	4	22	

Batch 3A24008 - EPA 5030B_MS

Blank (3A24008-BLK1) Prepared: 01/24/2013 09:01 Analyzed: 01/24/2013 21:38

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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3A24008 - EPA 5030B_MS

Blank (3A24008-BLK1) Continued Prepared: 01/24/2013 09:01 Analyzed: 01/24/2013 21:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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							
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	*45*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*85*	*67-127*			

LCS (3A24008-BS1) Prepared: 01/24/2013 09:01 Analyzed: 01/24/2013 22:08

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		97	75-133			
Benzene	20		1.0	ug/L	20.0		99	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		103	83-117			
Toluene	21		1.0	ug/L	20.0		105	71-118			
Trichloroethene	19		1.0	ug/L	20.0		97	74-119			

Matrix Spike (3A24008-MS1) Prepared: 01/24/2013 09:01 Analyzed: 01/24/2013 22:37

Source: C300858-02

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	0.21 U	102	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	99	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	103	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	107	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	95	74-119			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3A24008 - EPA 5030B_MS

Matrix Spike Dup (3A24008-MSD1) Prepared: 01/24/2013 09:01 Analyzed: 01/24/2013 23:08

Source: C300858-02

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	96	75-133	6	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	98	81-134	1	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117	1	16	
Toluene	21		1.0	ug/L	20.0	0.14 U	105	71-118	2	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	93	74-119	2	22	

Batch 3A25001 - EPA 5030B_MS

Blank (3A25001-BLK1) Prepared: 01/25/2013 07:08 Analyzed: 01/25/2013 10:06

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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3A25001 - EPA 5030B_MS

Blank (3A25001-BLK1) Continued Prepared: 01/25/2013 07:08 Analyzed: 01/25/2013 10:06

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							
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	*44*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*85*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*86*	*67-127*			

LCS (3A25001-BS1) Prepared: 01/25/2013 07:08 Analyzed: 01/25/2013 10:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		106	75-133			
Benzene	21		1.0	ug/L	20.0		106	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		107	83-117			
Toluene	22		1.0	ug/L	20.0		110	71-118			
Trichloroethene	21		1.0	ug/L	20.0		103	74-119			

Matrix Spike (3A25001-MS1) Prepared: 01/25/2013 07:08 Analyzed: 01/25/2013 11:06

Source: C300335-03

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	0.21 U	102	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	101	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	103	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	106	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	98	74-119			

Matrix Spike Dup (3A25001-MSD1) Prepared: 01/25/2013 07:08 Analyzed: 01/25/2013 11:36

Source: C300335-03

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	0.21 U	99	75-133	2	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	99	81-134	1	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	101	83-117	2	16	
Toluene	21		1.0	ug/L	20.0	0.14 U	103	71-118	3	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	93	74-119	5	22	

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

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QUALITY CONTROL

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

Batch 3A23015 - EPA 3005A

Blank (3A23015-BLK1) Prepared: 01/23/2013 10:49 Analyzed: 01/25/2013 12:15

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	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	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 (3A23015-BS1) Prepared: 01/23/2013 10:49 Analyzed: 01/25/2013 12:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	205		10.0	ug/L	200		102	80-120			
Barium	205		10.0	ug/L	200		102	80-120			
Beryllium	20.3		1.00	ug/L	20.0		102	80-120			
Cadmium	21.6		1.00	ug/L	20.0		108	80-120			
Chromium	203		10.0	ug/L	200		101	80-120			
Cobalt	215		10.0	ug/L	200		107	80-120			
Copper	200		10.0	ug/L	200		100	80-120			
Lead	208		10.0	ug/L	200		104	80-120			
Nickel	206		10.0	ug/L	200		103	80-120			
Silver	200		10.0	ug/L	200		100	80-120			
Vanadium	197		10.0	ug/L	200		99	80-120			
Zinc	211		10.0	ug/L	200		106	80-120			

Matrix Spike (3A23015-MS1) Prepared: 01/23/2013 10:49 Analyzed: 01/25/2013 12:22

Source: C216021-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	195		10.0	ug/L	200	2.80 U	98	75-125			
Barium	314		10.0	ug/L	200	124	95	75-125			
Beryllium	21.5		1.00	ug/L	20.0	1.56	100	75-125			
Cadmium	20.7		1.00	ug/L	20.0	0.422	101	75-125			
Chromium	198		10.0	ug/L	200	1.00 U	99	75-125			
Cobalt	233		10.0	ug/L	200	27.1	103	75-125			
Copper	193		10.0	ug/L	200	1.60 U	97	75-125			
Lead	202		10.0	ug/L	200	1.90 U	101	75-125			
Nickel	227		10.0	ug/L	200	29.7	99	75-125			
Silver	194		10.0	ug/L	200	1.90 U	97	75-125			
Vanadium	195		10.0	ug/L	200	1.40 U	97	75-125			
Zinc	249		10.0	ug/L	200	53.3	98	75-125			

Matrix Spike Dup (3A23015-MSD1) Prepared: 01/23/2013 10:49 Analyzed: 01/25/2013 12:25

QUALITY CONTROL

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

Batch 3A23015 - EPA 3005A

Matrix Spike Dup (3A23015-MSD1) Continued Prepared: 01/23/2013 10:49 Analyzed: 01/25/2013 12:25

Source: C216021-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	203		10.0	ug/L	200	2.80 U	101	75-125	4	20	
Barium	318		10.0	ug/L	200	124	97	75-125	1	20	
Beryllium	21.9		1.00	ug/L	20.0	1.56	102	75-125	2	20	
Cadmium	20.8		1.00	ug/L	20.0	0.422	102	75-125	0.3	20	
Chromium	200		10.0	ug/L	200	1.00 U	100	75-125	1	20	
Cobalt	236		10.0	ug/L	200	27.1	104	75-125	0.9	20	
Copper	196		10.0	ug/L	200	1.60 U	98	75-125	1	20	
Lead	204		10.0	ug/L	200	1.90 U	102	75-125	0.9	20	
Nickel	228		10.0	ug/L	200	29.7	99	75-125	0.7	20	
Silver	197		10.0	ug/L	200	1.90 U	98	75-125	1	20	
Vanadium	198		10.0	ug/L	200	1.40 U	99	75-125	1	20	
Zinc	252		10.0	ug/L	200	53.3	100	75-125	2	20	

Post Spike (3A23015-PS1) Prepared: 01/23/2013 10:49 Analyzed: 01/25/2013 12:27

Source: C216021-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.194		0.0100	mg/L	0.200	-0.00470	100	80-120			
Barium	0.313		0.0100	mg/L	0.200	0.124	95	80-120			
Beryllium	0.0215		0.00100	mg/L	0.0200	0.00156	100	80-120			
Cadmium	0.0204		0.00100	mg/L	0.0200	0.000422	100	80-120			
Chromium	0.197		0.0100	mg/L	0.200	-0.000417	98	80-120			
Cobalt	0.232		0.0100	mg/L	0.200	0.0271	103	80-120			
Copper	0.191		0.0100	mg/L	0.200	-0.000692	96	80-120			
Lead	0.201		0.0100	mg/L	0.200	-0.000659	101	80-120			
Nickel	0.225		0.0100	mg/L	0.200	0.0297	98	80-120			
Silver	0.195		0.0100	mg/L	0.200	0.00156	97	80-120			
Vanadium	0.193		0.0100	mg/L	0.200	4.12E-6	97	80-120			
Zinc	0.249		0.0100	mg/L	0.200	0.0533	98	80-120			

Batch 3A23031 - EPA 3005A

Blank (3A23031-BLK1) Prepared: 01/23/2013 15:16 Analyzed: 01/29/2013 12:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (3A23031-BS1) Prepared: 01/23/2013 15:16 Analyzed: 01/29/2013 12:39

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			
Selenium	205		1.00	ug/L	200		102	80-120			
Thallium	210		1.00	ug/L	200		105	80-120			

QUALITY CONTROL

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

Batch 3A23031 - EPA 3005A

Matrix Spike (3A23031-MS1) Prepared: 01/23/2013 15:16 Analyzed: 01/29/2013 12:47

Source: C216021-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	214		2.00	ug/L	200	1.30	106	75-125			
Selenium	198		1.00	ug/L	200	0.830 U	99	75-125			
Thallium	205		1.00	ug/L	200	0.110 U	103	75-125			

Matrix Spike Dup (3A23031-MSD1) Prepared: 01/23/2013 15:16 Analyzed: 01/29/2013 12:51

Source: C216021-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	213		2.00	ug/L	200	1.30	106	75-125	0.4	20	
Selenium	201		1.00	ug/L	200	0.830 U	101	75-125	1	20	
Thallium	205		1.00	ug/L	200	0.110 U	103	75-125	0.1	20	

Post Spike (3A23031-PS1) Prepared: 01/23/2013 15:16 Analyzed: 01/29/2013 12:55

Source: C216021-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	217		2.00	ug/L	200	1.30	108	80-120			
Selenium	210		1.00	ug/L	200	0.531	105	80-120			
Thallium	212		1.00	ug/L	200	0.0689	106	80-120			

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-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QS-03	Surrogate recovery outside acceptance limits
R-05	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Orlando, FL 32824
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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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Client Name: S&ME, Inc. (SM001)	Project Number: 1040-01-545E
Address: 3201 Spring Forest Road	Project Name/Desc: Edgecombe County Landfill - App I
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Sam Watts
Sampler(s) Name, Affiliation (Print): Gerald Paul Rob Bryant	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Site Location / Time Zone: TARBORO, NC

Requested Analyses: 8260B Appendix 1; Ag/F, As/F, Ba/F, Be/F, Cd/F, CoF, CrF, Cu/F, Ni/F, PbF, SbF, SeF, TlF, VF, ZnF; Ag, As, Ba, Be, Cd, Co, Cr, Cu, Ni, Pb, Sb, Se, Tl, V, Zn

Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times
Note : Rush requests subject to acceptance by the facility
X Standard
___ Expedited
Due __/__/__

Lab Workorder: C216021

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers				Sample Comments
	3301-MW3B	1/21/13	1145	GRAB	GW	5	X	X	X	X Hold
	3301-MW4	1/21/13	1104		GW	5	X	X	X	Dissolved
	3301-MW5	1/22/13	1400		GW	5	X	X	X	metals
	3301-MW6	1/21/13	1705		GW	5	X	X	X	until Results
	3301-MW7A	1/21/13	1745		GW	5	X	X	X	
	3301-MW9	1/21/13	1245		GW	5	X	X	X	
	3301-MW12	1/22/13	1105		GW	5	X	X	X	
	3301-MW13	1/22/13	1325		GW	5	X	X	X	
	3301-MW14	1/21/13	1450		GW	5	X	X	X	
	3301-MW15	1/22/13	0945		GW	5	X	X	X	
	3301-MW16	1/21/13	1600		GW	5	X	X	X	
	3301-SW1	1/22/13	1115		GW	5	X	X	X	

<-- Total # of Containers

Sample Kit Prepared By: KAY	Date/Time: 1/4/13	Relinquished By: [signature]	Date/Time: 1/23/13 9:10
Received By: Rachel Yonis	Date/Time: 1/23/13 9:10	Relinquished By:	Date/Time:
Received By:	Date/Time:	Relinquished By:	Date/Time:
Received By:	Date/Time:		

Comments/Special Reporting Requirements: Hold All Dissolved metals until results come in.

Cooler #'s & Temps on Receipt: C-001 2.0°c C-01

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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD www.encolabs.com

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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 2

Client Name: S&ME, Inc. (SM001)	Project Number: 1040-01-545E
Address: 3201 Spring Forest Road	Project Name/Desc: Edgecombe County Landfill - App I
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Sam Watts
Sampler(s) Name, Affiliation (Print): Gerald Paul Bob Bryant	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone: TARBORO, NC

Requested Analyses: 8260B Appendix 1; Ag/F, As/F, BaF, BeF, CdF, CoF, CrF, CuF, FF, NiF, PbF, SbF, SeF, TlF, VF, ZnF; Ag, As, Ba, Be, Cd, Co, Cr, Cu, Ni, Pb, Sb, Se, Tl, V, Zn

Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times: Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C216021

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag/F, As/F, BaF, BeF, CdF, CoF, CrF, CuF, FF, NiF, PbF, SbF, SeF, TlF, VF, ZnF	Ag, As, Ba, Be, Cd, Co, Cr, Cu, Ni, Pb, Sb, Se, Tl, V, Zn	Sample Comments
	3301-SW2	1/21/13	1610	GRAB	GW	5	X	X	X	Hold
	3301-Duplicate	1/22/13	—	↓	GW	5	X	X	X	Dissolved
	3301-EquipmentBlank	1/22/13	1600	↓	WA	5	X	X	X	metals
	Trip Blank	—	—	—	GW	3	X			until Results

<-- Total # of Containers

Sample Kit Prepared By: RAY	Date/Time: 1/4/13	Relinquished By:	Date/Time: 1/23/13 9:10	Received By: Rachel Yan	Date/Time: 1/23/13 9:10
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-001 2.0°c C-01

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

APPENDIX II

COMPACT DISK WITH ELECTRONIC COPY OF TABLE 3 (.XLS) AND ELECTRONIC COPY OF THIS REPORT (.PDF)

Table 3 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 21 and 22, 2013
S&ME Project No. 1054-07-238E

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-P1		318	Depth To Water	7.25	ft							1/21/2013			
33-01	3301-P1		411	Total Well Depth	21.96	ft							1/21/2013			
33-01	3301-P1		328	TOC Elevation	74.48	ft AMSL							1/21/2013			
33-01	3301-P1		319	Groundwater Elevation	67.23	ft AMSL							1/21/2013			
33-01	3301-P2A		318	Depth To Water	12.82	ft							1/21/2013			
33-01	3301-P2A		411	Total Well Depth	27.17	ft							1/21/2013			
33-01	3301-P2A		328	TOC Elevation	83.61	ft AMSL							1/21/2013			
33-01	3301-P2A		319	Groundwater Elevation	70.79	ft AMSL							1/21/2013			
33-01	3301-P3A		318	Depth To Water	13.08	ft							1/21/2013			
33-01	3301-P3A		411	Total Well Depth	27.17	ft							1/21/2013			
33-01	3301-P3A		328	TOC Elevation	79.77	ft AMSL							1/21/2013			
33-01	3301-P3A		319	Groundwater Elevation	66.69	ft AMSL							1/21/2013			
33-01	3301-P12		318	Depth To Water	9.73	ft							1/21/2013			
33-01	3301-P12		411	Total Well Depth	13.92	ft							1/21/2013			
33-01	3301-P12		328	TOC Elevation	54.15	ft AMSL							1/21/2013			
33-01	3301-P12		319	Groundwater Elevation	44.42	ft AMSL							1/21/2013			
33-01	3301-P15		318	Depth To Water	5.21	ft							1/21/2013			
33-01	3301-P15		411	Total Well Depth	10.36	ft							1/21/2013			
33-01	3301-P15		328	TOC Elevation	45.16	ft AMSL							1/21/2013			
33-01	3301-P15		319	Groundwater Elevation	39.95	ft AMSL							1/21/2013			
33-01	3301-P17		318	Depth To Water	3.66	ft							1/21/2013			
33-01	3301-P17		411	Total Well Depth	10.15	ft							1/21/2013			
33-01	3301-P17		328	TOC Elevation	42.45	ft AMSL							1/21/2013			
33-01	3301-P17		319	Groundwater Elevation	38.79	ft AMSL							1/21/2013			
33-01	3301-P18		318	Depth To Water	13.35	ft							1/21/2013			
33-01	3301-P18		411	Total Well Depth	18.44	ft							1/21/2013			
33-01	3301-P18		328	TOC Elevation	54.44	ft AMSL							1/21/2013			
33-01	3301-P18		319	Groundwater Elevation	41.09	ft AMSL							1/21/2013			
33-01	3301-P19		318	Depth To Water	NM	ft							1/21/2013			
33-01	3301-P19		411	Total Well Depth	17.67	ft							1/21/2013			
33-01	3301-P19		328	TOC Elevation	58.88	ft AMSL							1/21/2013			
33-01	3301-P19		319	Groundwater Elevation	NM	ft AMSL							1/21/2013			
33-01	3301-P25		318	Depth To Water	6.11	ft							1/21/2013			
33-01	3301-P25		411	Total Well Depth	12.97	ft							1/21/2013			
33-01	3301-P25		328	TOC Elevation	80.57	ft AMSL							1/21/2013			
33-01	3301-P25		319	Groundwater Elevation	74.46	ft AMSL							1/21/2013			
33-01	3301-P29		318	Depth To Water	5.19	ft							1/21/2013			
33-01	3301-P29		411	Total Well Depth	13.19	ft							1/21/2013			
33-01	3301-P29		328	TOC Elevation	65.29	ft AMSL							1/21/2013			
33-01	3301-P29		319	Groundwater Elevation	60.10	ft AMSL							1/21/2013			
33-01	3301-P34		318	Depth To Water	3.13	ft							1/21/2013			
33-01	3301-P34		411	Total Well Depth	13.04	ft							1/21/2013			
33-01	3301-P34		328	TOC Elevation	44.34	ft AMSL							1/21/2013			
33-01	3301-P34		319	Groundwater Elevation	41.21	ft AMSL							1/21/2013			
33-01	3301-P35		318	Depth To Water	4.14	ft							1/21/2013			
33-01	3301-P35		411	Total Well Depth	13.10	ft							1/21/2013			
33-01	3301-P35		328	TOC Elevation	44.50	ft AMSL							1/21/2013			
33-01	3301-P35		319	Groundwater Elevation	40.36	ft AMSL							1/21/2013			
33-01	3301-MW3B		318	Depth To Water	9.01	ft							1/21/2013			
33-01	3301-MW3B		411	Total Well Depth	22.67	ft							1/21/2013			
33-01	3301-MW3B		328	TOC Elevation	81.18	ft AMSL							1/21/2013			
33-01	3301-MW3B		319	Groundwater Elevation	72.17	ft AMSL							1/21/2013			
33-01	3301-MW3B		320	pH	4.12	standard units							1/21/2013			
33-01	3301-MW3B		323	Specific Conductivity	0.167	mS/cm							1/21/2013			
33-01	3301-MW3B		325	Temperature	16.28	ºC							1/21/2013			
33-01	3301-MW3B		330	Turbidity	8.1	NTUs							1/21/2013			
33-01	3301-MW3B	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW3B	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	7440-39-3	15	Barium Total	124	ug/L		6010C	1.00	10.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	7440-02-0	152	Nickel Total	29.7	ug/L	J	6010C	1.80	10.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW3B	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	7440-28-0	194	Thallium Total	0.117	ug/L	J	6020A	0.110	1.00	5.5	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW3B	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	7440-66-6	213	Zinc Total	53.3	ug/L		6010C	3.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	7440-41-7	23	Beryllium Total	1.56	ug/L		6010C	0.100	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	7440-43-9	34	Cadmium Total	0.422	ug/L	J	6010C	0.360	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	7440-48-4	53	Cobalt Total	27.1	ug/L		6010C	1.10	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW3B	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4		318	Depth To Water	7.41	ft							1/21/2013			
33-01	3301-MW4		411	Total Well Depth	20.18	ft							1/21/2013			
33-01	3301-MW4		328	TOC Elevation	68.95	ft AMSL							1/21/2013			
33-01	3301-MW4		319	Groundwater Elevation	61.54	ft AMSL							1/21/2013			
33-01	3301-MW4		320	pH	5.13	standard units							1/21/2013			
33-01	3301-MW4		323	Specific Conductivity	0.101	mS/cm							1/21/2013			
33-01	3301-MW4		325	Temperature	15.42	ºC							1/21/2013			
33-01	3301-MW4		330	Turbidity	3.5	NTUs							1/21/2013			
33-01	3301-MW4	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	7440-36-0	13	Antimony Total	1.30	ug/L	J	6020A	0.220	2.00	6	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW4	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	7440-39-3	15	Barium Total	102	ug/L		6010C	1.00	10.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	10.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW4	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591

Table 3 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 21 and 22, 2013
S&ME Project No. 1054-07-238E

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW4	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW4	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	7440-41-7	23	Beryllium Total	0.188	ug/L	J	6010C	0.100	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	7440-48-4	53	Cobalt Total	1.52	ug/L	J	6010C	1.10	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW4	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5		318	Depth To Water	11.00	ft							1/21/2013			
33-01	3301-MW5		411	Total Well Depth	23.86	ft							1/21/2013			
33-01	3301-MW5		328	TOC Elevation	53.75	ft AMSL							1/21/2013			
33-01	3301-MW5		319	Groundwater Elevation	42.75	ft AMSL							1/21/2013			
33-01	3301-MW5		320	pH	6.23	standard units							1/22/2013			
33-01	3301-MW5		323	Specific Conductivity	1.239	mS/cm							1/22/2013			
33-01	3301-MW5		325	Temperature	15.57	ºC							1/22/2013			
33-01	3301-MW5		330	Turbidity	2.4	NTUs							1/22/2013			
33-01	3301-MW5	100-41-4	110	Ethylbenzene	0.65	ug/L	UD	8260B	0.65	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	591-78-6	124	2-Hexanone	4.4	ug/L	UD	8260B	4.4	25	50	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-MW5	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	74-83-9	136	Bromomethane	0.70	ug/L	UD	8260B	0.70	5.0	10	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	74-87-3	137	Chloromethane	0.65	ug/L	UD	8260B	0.65	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	74-95-3	139	Dibromomethane	1.4	ug/L	UD	8260B	1.4	5.0	10	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	7440-38-2	14	Arsenic Total	22.3	ug/L		6010C	2.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	75-09-2	140	Methylene chloride	1.2	ug/L	UD	8260B	1.2	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	78-93-3	141	2-Butanone	6.5	ug/L	UD	8260B	6.5	25	100	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	74-88-4	142	Iodomethane	8.5	ug/L	UD	8260B	8.5	25	10	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	108-10-1	147	4-Methyl-2-pentanone	5.5	ug/L	UD	8260B	5.5	25	100	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	7440-39-3	15	Barium Total	256	ug/L		6010C	1.00	10.0	100	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	7440-02-0	152	Nickel Total	49.4	ug/L	J	6010C	1.80	10.0	50	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	71-43-2	16	Benzene	4.4	ug/L	JD	8260B	0.75	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-MW5	7440-22-4	184	Silver Total	7.01	ug/L	J	6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	100-42-5	186	Styrene	0.55	ug/L	UD	8260B	0.55	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	630-20-6	190	1,1,1,2-Tetrachloroethane	0.85	ug/L	UD	8260B	0.85	5.0	5	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	79-34-5	191	1,1,2,2-Tetrachloroethane	1.4	ug/L	UD	8260B	1.4	5.0	3	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	127-18-4	192	Tetrachloroethene	0.85	ug/L	UD	8260B	0.85	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	7440-28-0	194	Thallium Total	0.164	ug/L	J	6020A	0.110	1.00	5.5	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-MW5	108-88-3	196	Toluene	0.70	ug/L	UD	8260B	0.70	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	71-55-6	200	1,1,1-Trichloroethane	0.60	ug/L	UD	8260B	0.60	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	79-01-6	201	Trichloroethene	0.75	ug/L	UD	8260B	0.75	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	79-00-5	202	1,1,2-Trichloroethane	0.70	ug/L	UD	8260B	0.70	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	75-69-4	203	Trichlorofluoromethane	1.2	ug/L	UD	8260B	1.2	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	96-18-4	206	1,2,3-Trichloropropane	1.2	ug/L	UD	8260B	1.2	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	108-05-4	210	Vinyl acetate	4.8	ug/L	UD	8260B	4.8	25	50	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	75-01-4	211	Vinyl chloride	24	ug/L	D	8260B	1.6	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	7440-66-6	213	Zinc Total	68.3	ug/L		6010C	3.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	74-97-5	28	Bromochloromethane	2.4	ug/L	UD	8260B	2.4	5.0	3	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	75-27-4	29	Bromodichloromethane	0.85	ug/L	UD	8260B	0.85	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	67-64-1	3	Acetone	6.0	ug/L	UD	8260B	6.0	25	100	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	75-25-2	30	Bromoform	1.1	ug/L	UD	8260B	1.1	5.0	3	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	1330-20-7	346	Xylenes (Total)	2.2	ug/L	UD	8260B	2.2	15	5	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	75-15-0	35	Carbon disulfide	7.5	ug/L	UD	8260B	7.5	25	100	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	56-23-5	36	Carbon tetrachloride	0.85	ug/L	UD	8260B	0.85	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	108-90-7	39	Chlorobenzene	15	ug/L	D	8260B	0.85	5.0	3	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	75-00-3	41	Chloroethane	1.2	ug/L	UD	8260B	1.2	5.0	10	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	67-66-3	44	Chloroform	0.90	ug/L	UD	8260B	0.90	5.0	5	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	7440-48-4	53	Cobalt Total	191	ug/L		6010C	1.10	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	124-48-1	66	Dibromochloromethane	0.85	ug/L	UD	8260B	0.85	5.0	3	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	96-12-8	67	1,2-Dibromo-3-chloropropane	2.4	ug/L	UD	8260B	2.4	5.0	13	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	106-93-4	68	1,2-Dibromoethane	3.3	ug/L	UD	8260B	3.3	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	95-50-1	69	1,2-Dichlorobenzene	0.95	ug/L	UD	8260B	0.95	5.0	5	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	106-46-7	71	1,4-Dichlorobenzene	10	ug/L	D	8260B	0.95	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	110-57-6	73	trans-1,4-Dichloro-2-butene	3.5	ug/L	UD	8260B	3.5	5.0	100	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	75-34-3	75	1,1-Dichloroethane	6.0	ug/L	D	8260B	0.65	5.0	5	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	UD	8260B	1.0	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	75-35-4	77	1,1-Dichloroethene	1.0	ug/L	UD	8260B	1.0	5.0	5	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	156-59-2	78	cis-1,2-Dichloroethene	500	ug/L	D	8260B	0.75	5.0	5	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	156-60-5	79	trans-1,2-Dichloroethene	3.5	ug/L	JD	8260B	1.0	5.0	5	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	107-13-1	8	Acrylonitrile	18	ug/L	UD	8260B	18	50	200	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	78-87-5	82	1,2-Dichloropropane	0.50	ug/L	UD	8260B	0.50	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	10061-01-5	86	cis-1,3-Dichloropropene	1.0	ug/L	UD	8260B	1.0	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW5	10061-02-6	87	trans-1,3-Dichloropropene	0.75	ug/L	UD	8260B	0.75	5.0	1	5	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-Duplicate	100-41-4	110	Ethylbenzene	0.65	ug/L	UD	8260B	0.65	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	591-78-6	124	2-Hexanone	4.4	ug/L	UD	8260B	4.4	25	50	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-Duplicate	7439-92-1	131	Lead Total	2.32	ug/L	J	6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-Duplicate	74-83-9	136	Bromomethane	0.70	ug/L	UD	8260B	0.70	5.0	10	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	74-87-3	137	Chloromethane	0.65	ug/L	UD	8260B	0.65	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	74-95-3	139	Dibromomethane	1.4	ug/L	UD	8260B	1.4	5.0	10	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	7440-38-2	14	Arsenic Total	29.1	ug/L		6010C	2.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-Duplicate	75-09-2	140	Methylene chloride	1.2	ug/L	UD	8260B	1.2	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	78-93-3	141	2-Butanone	6.5	ug/L	UD	8260B	6.5	25	100	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	74-88-4	142	Iodomethane	8.5	ug/L	UD	8260B	8.5	25	10	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	108-10-1	147	4-Methyl-2-pentanone	5.5	ug/L	UD	8260B	5.5	25	100	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	7440-39-3	15	Barium Total	255	ug/L		6010C	1.00	10.0	100	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-Duplicate	7440-02-0	152	Nickel Total	48.6	ug/L	J	6010C	1.80	10.0	50	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-Duplicate	71-43-2	16	Benzene	4.4	ug/L	JD	8260B	0.75	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-Duplicate	7440-22-4	184	Silver Total	6.53	ug/L	J	6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-Duplicate	100-42-5	186	Styrene	0.55	ug/L	UD	8260B	0.55	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	630-20-6	190	1,1,1,2-Tetrachloroethane	0.85	ug/L	UD	8260B	0.85	5.0	5	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	79-34-5	191	1,1,2,2-Tetrachloroethane	1.4	ug/L	UD	8260B	1.4	5.0	3	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	127-18-4	192	Tetrachloroethene	0.85	ug/L	UD	8260B	0.85	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	7440-28-0	194	Thallium Total	0.112	ug/L	J	6020A	0.110	1.00	5.5	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-Duplicate	108-88-3	196	Toluene	0.70	ug/L	UD	8260B	0.70	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	71-55-6	200	1,1,1-Trichloroethane	0.60	ug/L	UD	8260B	0.60	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	79-01-6	201	Trichloroethene	0.75	ug/L	UD	8260B	0.75	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	79-00-5	202	1,1,2-Trichloroethane	0.70	ug/L	UD	8260B	0.70	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	75-69-4	203	Trichlorofluoromethane	1.2	ug/L	UD	8260B	1.2	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	96-18-4	206	1,2,3-Trichloropropane	1.2	ug/L	UD	8260B	1.2	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-Duplicate	108-05-4	210	Vinyl acetate	4.8	ug/L	UD	8260B	4.8	25	50	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	75-01-4	211	Vinyl chloride	24	ug/L	D	8260B	1.6	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	7440-66-6	213	Zinc Total	68.0	ug/L		6010C	3.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-Duplicate	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-Duplicate	74-97-5	28	Bromochloromethane	2.4	ug/L	UD	8260B	2.4	5.0	3	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	75-27-4	29	Bromodichloromethane	0.85	ug/L	UD	8260B	0.85	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	67-64-1	3	Acetone	6.0	ug/L	UD	8260B	6.0	25	100	5	1/22/2013	1/24/2013	1/25/2013	591

Table 3 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 21 and 22, 2013
S&ME Project No. 1054-07-238E

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-Duplicate	75-25-2	30	Bromoform	1.1	ug/L	UD	8260B	1.1	5.0	3	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-Duplicate	1330-20-7	346	Xylenes (Total)	2.2	ug/L	UD	8260B	2.2	15	5	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	75-15-0	35	Carbon disulfide	7.5	ug/L	UD	8260B	7.5	25	100	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	56-23-5	36	Carbon tetrachloride	0.85	ug/L	UD	8260B	0.85	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	108-90-7	39	Chlorobenzene	17	ug/L	D	8260B	0.85	5.0	3	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	75-00-3	41	Chloroethane	1.2	ug/L	UD	8260B	1.2	5.0	10	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	67-66-3	44	Chloroform	0.90	ug/L	UD	8260B	0.90	5.0	5	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-Duplicate	7440-48-4	53	Cobalt Total	191	ug/L		6010C	1.10	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-Duplicate	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-Duplicate	124-48-1	66	Dibromochloromethane	0.85	ug/L	UD	8260B	0.85	5.0	3	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	96-12-8	67	1,2-Dibromo-3-chloropropane	2.4	ug/L	UD	8260B	2.4	5.0	13	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	106-93-4	68	1,2-Dibromoethane	3.3	ug/L	UD	8260B	3.3	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	95-50-1	69	1,2-Dichlorobenzene	0.95	ug/L	UD	8260B	0.95	5.0	5	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	106-46-7	71	1,4-Dichlorobenzene	11	ug/L	D	8260B	0.95	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	110-57-6	73	trans-1,4-Dichloro-2-butene	3.5	ug/L	UD	8260B	3.5	5.0	100	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	75-34-3	75	1,1-Dichloroethane	6.6	ug/L	D	8260B	0.65	5.0	5	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	UD	8260B	1.0	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	75-35-4	77	1,1-Dichloroethene	1.0	ug/L	UD	8260B	1.0	5.0	5	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	156-59-2	78	cis-1,2-Dichloroethene	530	ug/L	D	8260B	0.75	5.0	5	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	156-60-5	79	trans-1,2-Dichloroethene	3.4	ug/L	JD	8260B	1.0	5.0	5	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	107-13-1	8	Acrylonitrile	18	ug/L	UD	8260B	18	50	200	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	78-87-5	82	1,2-Dichloropropane	0.50	ug/L	UD	8260B	0.50	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	10061-01-5	86	cis-1,3-Dichloropropene	1.0	ug/L	UD	8260B	1.0	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-Duplicate	10061-02-6	87	trans-1,3-Dichloropropene	0.75	ug/L	UD	8260B	0.75	5.0	1	5	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW5D		318	Depth To Water	10.18	ft							1/21/2013			
33-01	3301-MW5D		411	Total Well Depth	41.63	ft							1/21/2013			
33-01	3301-MW5D		328	TOC Elevation	52.08	ft AMSL							1/21/2013			
33-01	3301-MW5D		319	Groundwater Elevation	41.90	ft AMSL							1/21/2013			
33-01	3301-MW5S		318	Depth To Water	8.55	ft							1/21/2013			
33-01	3301-MW5S		411	Total Well Depth	13.50	ft							1/21/2013			
33-01	3301-MW5S		328	TOC Elevation	50.54	ft AMSL							1/21/2013			
33-01	3301-MW5S		319	Groundwater Elevation	41.99	ft AMSL							1/21/2013			
33-01	3301-MW6		318	Depth To Water	3.54	ft.							1/21/2013			
33-01	3301-MW6		411	Total Well Depth	19.75	ft.							1/21/2013			
33-01	3301-MW6		328	TOC Elevation	46.29	ft AMSL							1/21/2013			
33-01	3301-MW6		319	Groundwater Elevation	42.75	ft AMSL							1/21/2013			
33-01	3301-MW6		320	pH	5.10	standard units							1/21/2013			
33-01	3301-MW6		323	Specific Conductivity	0.436	mS/cm							1/21/2013			
33-01	3301-MW6		325	Temperature	12.73	ºC							1/21/2013			
33-01	3301-MW6		330	Turbidity	11.3	NTUs							1/21/2013			
33-01	3301-MW6	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW6	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	7440-39-3	15	Barium Total	210	ug/L		6010C	1.00	10.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	7440-02-0	152	Nickel Total	8.05	ug/L	J	6010C	1.80	10.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW6	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW6	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	7440-62-2	209	Vanadium Total	1.43	ug/L	J	6010C	1.40	10.0	25	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	7440-66-6	213	Zinc Total	39.2	ug/L		6010C	3.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	7440-41-7	23	Beryllium Total	0.326	ug/L	J	6010C	0.100	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	7440-48-4	53	Cobalt Total	16.9	ug/L		6010C	1.10	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW6	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A		318	Depth To Water	14.22	ft							1/21/2013			
33-01	3301-MW7A		411	Total Well Depth	26.94	ft							1/21/2013			
33-01	3301-MW7A		328	TOC Elevation	68.43	ft AMSL							1/21/2013			
33-01	3301-MW7A		319	Groundwater Elevation	54.21	ft AMSL							1/21/2013			
33-01	3301-MW7A		320	pH	5.90	standard units							1/21/2013			
33-01	3301-MW7A		323	Specific Conductivity	0.816	mS/cm							1/21/2013			
33-01	3301-MW7A		325	Temperature	16.20	ºC							1/21/2013			
33-01	3301-MW7A		330	Turbidity	8.6	NTUs							1/21/2013			
33-01	3301-MW7A	100-41-4	110	Ethylbenzene	0.54	ug/L	J	8260B	0.13	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW7A	7439-92-1	131	Lead Total	19.0	ug/L	UD	6010C	19.0	100	10	10	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	7440-38-2	14	Arsenic Total	28.0	ug/L	UD	6010C	28.0	100	10	10	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	7440-39-3	15	Barium Total	221	ug/L	D	6010C	10.0	100	100	10	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	7440-02-0	152	Nickel Total	18.0	ug/L	UD	6010C	18.0	100	50	10	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	71-43-2	16	Benzene	2.8	ug/L		8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW7A	7440-22-4	184	Silver Total	19.0	ug/L	UD	6010C	19.0	100	10	10	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW7A	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	7440-62-2	209	Vanadium Total	14.0	ug/L	UD	6010C	14.0	100	25	10	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	7440-66-6	213	Zinc Total	8.74	ug/L	J	6010C	3.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	7440-41-7	23	Beryllium Total	1.00	ug/L	UD	6010C	1.00	10.0	1	10	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591

Table 3 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 21 and 22, 2013
S&ME Project No. 1054-07-238E

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW7A	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	7440-43-9	34	Cadmium Total	3.60	ug/L	UD	6010C	3.60	10.0	1	10	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	108-90-7	39	Chlorobenzene	4.2	ug/L		8260B	0.17	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	75-00-3	41	Chloroethane	1.6	ug/L	J	8260B	0.23	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	7440-47-3	51	Chromium Total	10.0	ug/L	UD	6010C	10.0	100	10	10	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	7440-48-4	53	Cobalt Total	11.0	ug/L	UD	6010C	11.0	100	10	10	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	7440-50-8	54	Copper Total	16.0	ug/L	UD	6010C	16.0	100	10	10	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	106-46-7	71	1,4-Dichlorobenzene	1.6	ug/L		8260B	0.19	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	156-59-2	78	cis-1,2-Dichloroethene	0.54	ug/L	J	8260B	0.15	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW7A	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW8A		318	Depth To Water	11.24	ft							1/21/2013			
33-01	3301-MW8A		411	Total Well Depth	22.38	ft							1/21/2013			
33-01	3301-MW8A		328	TOC Elevation	82.34	ft AMSL							1/21/2013			
33-01	3301-MW8A		319	Groundwater Elevation	71.10	ft AMSL							1/21/2013			
33-01	3301-MW9		318	Depth To Water	5.72	ft							1/21/2013			
33-01	3301-MW9		411	Total Well Depth	16.85	ft							1/21/2013			
33-01	3301-MW9		328	TOC Elevation	72.41	ft AMSL							1/21/2013			
33-01	3301-MW9		319	Groundwater Elevation	66.69	ft AMSL							1/21/2013			
33-01	3301-MW9		320	pH	6.84	standard units							1/21/2013			
33-01	3301-MW9		323	Specific Conductivity	0.171	mS/cm							1/21/2013			
33-01	3301-MW9		325	Temperature	16.75	ºC							1/21/2013			
33-01	3301-MW9		330	Turbidity	20.3	NTUs							1/21/2013			
33-01	3301-MW9	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW9	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	7440-39-3	15	Barium Total	122	ug/L		6010C	1.00	10.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	10.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW9	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW9	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	7440-48-4	53	Cobalt Total	1.10	ug/L	U	6010C	1.10	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW9	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW10		318	Depth To Water	4.72	ft							1/21/2013			
33-01	3301-MW10		411	Total Well Depth	13.57	ft							1/21/2013			
33-01	3301-MW10		328	TOC Elevation	75.78	ft AMSL							1/21/2013			
33-01	3301-MW10		319	Groundwater Elevation	71.06	ft AMSL							1/21/2013			
33-01	3301-MW12		318	Depth To Water	7.52	ft							1/21/2013			
33-01	3301-MW12		411	Total Well Depth	12.68	ft							1/21/2013			
33-01	3301-MW12		328	TOC Elevation	51.24	ft AMSL							1/21/2013			
33-01	3301-MW12		319	Groundwater Elevation	43.72	ft AMSL							1/21/2013			
33-01	3301-MW12		320	pH	4.57	standard units							1/22/2013			
33-01	3301-MW12		323	Specific Conductivity	1.081	mS/cm							1/22/2013			
33-01	3301-MW12		325	Temperature	13.02	ºC							1/22/2013			
33-01	3301-MW12		330	Turbidity	5.4	NTUs							1/22/2013			
33-01	3301-MW12	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-MW12	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	7440-39-3	15	Barium Total	275	ug/L		6010C	1.00	10.0	100	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	7440-02-0	152	Nickel Total	20.4	ug/L	J	6010C	1.80	10.0	50	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	71-43-2	16	Benzene	3.6	ug/L		8260B	0.15	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-MW12	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	7440-28-0	194	Thallium Total	0.173	ug/L	J	6020A	0.110	1.00	5.5	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-MW12	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	7440-66-6	213	Zinc Total	163	ug/L		6010C	3.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	7440-41-7	23	Beryllium Total	0.462	ug/L	J	6010C	0.100	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/22/2013	1/23/2013	1/25/2013	591

Table 3 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 21 and 22, 2013
S&ME Project No. 1054-07-238E

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW12	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	108-90-7	39	Chlorobenzene	3.9	ug/L		8260B	0.17	1.0	3	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	7440-48-4	53	Cobalt Total	16.7	ug/L		6010C	1.10	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	106-46-7	71	1,4-Dichlorobenzene	7.0	ug/L		8260B	0.19	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	75-34-3	75	1,1-Dichloroethane	0.96	ug/L	J	8260B	0.13	1.0	5	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	156-59-2	78	cis-1,2-Dichloroethene	0.65	ug/L	J	8260B	0.15	1.0	5	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW12	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW13		318	Depth To Water	6.20	ft							1/21/2013			
33-01	3301-MW13		411	Total Well Depth	23.00	ft							1/21/2013			
33-01	3301-MW13		328	TOC Elevation	54.99	ft AMSL							1/21/2013			
33-01	3301-MW13		319	Groundwater Elevation	48.79	ft AMSL							1/21/2013			
33-01	3301-MW13		320	pH	5.77	standard units							1/22/2013			
33-01	3301-MW13		323	Specific Conductivity	1.231	mS/cm							1/22/2013			
33-01	3301-MW13		325	Temperature	15.29	ºC							1/22/2013			
33-01	3301-MW13		330	Turbidity	8.2	NTUs							1/22/2013			
33-01	3301-MW13	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-MW13	7439-92-1	131	Lead Total	4.17	ug/L	J	6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW13	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW13	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	7440-39-3	15	Barium Total	252	ug/L		6010C	1.00	10.0	100	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW13	7440-02-0	152	Nickel Total	273	ug/L		6010C	1.80	10.0	50	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW13	71-43-2	16	Benzene	0.51	ug/L	J	8260B	0.15	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-MW13	7440-22-4	184	Silver Total	10.2	ug/L		6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW13	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	7440-28-0	194	Thallium Total	1.10	ug/L	J	6020A	0.110	1.00	5.5	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-MW13	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW13	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	75-01-4	211	Vinyl chloride	0.63	ug/L	J	8260B	0.32	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	7440-66-6	213	Zinc Total	155	ug/L		6010C	3.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW13	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW13	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW13	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	108-90-7	39	Chlorobenzene	6.3	ug/L		8260B	0.17	1.0	3	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW13	7440-48-4	53	Cobalt Total	1150	ug/L		6010C	1.10	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW13	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW13	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	106-46-7	71	1,4-Dichlorobenzene	1.6	ug/L		8260B	0.19	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	156-59-2	78	cis-1,2-Dichloroethene	5.7	ug/L		8260B	0.15	1.0	5	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW13	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/22/2013	1/24/2013	1/25/2013	591
33-01	3301-MW14		318	Depth To Water	4.00	ft							1/21/2013			
33-01	3301-MW14		411	Total Well Depth	14.63	ft							1/21/2013			
33-01	3301-MW14		328	TOC Elevation	43.88	ft AMSL							1/21/2013			
33-01	3301-MW14		319	Groundwater Elevation	39.88	ft AMSL							1/21/2013			
33-01	3301-MW14		320	pH	6.18	standard units							1/21/2013			
33-01	3301-MW14		323	Specific Conductivity	0.336	mS/cm							1/21/2013			
33-01	3301-MW14		325	Temperature	13.40	ºC							1/21/2013			
33-01	3301-MW14		330	Turbidity	9.3	NTUs							1/21/2013			
33-01	3301-MW14	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW14	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW14	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW14	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	7440-39-3	15	Barium Total	238	ug/L		6010C	1.00	10.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW14	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	10.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW14	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW14	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW14	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW14	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW14	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW14	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW14	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW14	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591

Table 3 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 21 and 22, 2013
S&ME Project No. 1054-07-238E

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW14	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW14	7440-48-4	53	Cobalt Total	1.10	ug/L	U	6010C	1.10	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW14	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW14	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW14	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15		318	Depth To Water	5.87	ft							1/21/2013			
33-01	3301-MW15		411	Total Well Depth	14.27	ft							1/21/2013			
33-01	3301-MW15		328	TOC Elevation	44.87	ft AMSL							1/21/2013			
33-01	3301-MW15		319	Groundwater Elevation	39.00	ft AMSL							1/21/2013			
33-01	3301-MW15		320	pH	6.30	standard units							1/22/2013			
33-01	3301-MW15		323	Specific Conductivity	0.927	mS/cm							1/22/2013			
33-01	3301-MW15		325	Temperature	11.58	ºC							1/22/2013			
33-01	3301-MW15		330	Turbidity	4.4	NTUs							1/22/2013			
33-01	3301-MW15	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-MW15	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW15	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW15	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	7440-39-3	15	Barium Total	378	ug/L		6010C	1.00	10.0	100	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW15	7440-02-0	152	Nickel Total	9.62	ug/L	J	6010C	1.80	10.0	50	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW15	71-43-2	16	Benzene	0.64	ug/L	J	8260B	0.15	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-MW15	7440-22-4	184	Silver Total	4.89	ug/L	J	6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW15	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-MW15	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW15	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	75-01-4	211	Vinyl chloride	3.3	ug/L		8260B	0.32	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	7440-66-6	213	Zinc Total	3.85	ug/L	J	6010C	3.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW15	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW15	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW15	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	108-90-7	39	Chlorobenzene	1.6	ug/L	J	8260B	0.17	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW15	7440-48-4	53	Cobalt Total	15.0	ug/L		6010C	1.10	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW15	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-MW15	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	75-34-3	75	1,1-Dichloroethane	0.69	ug/L	J	8260B	0.13	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	156-59-2	78	cis-1,2-Dichloroethene	15	ug/L		8260B	0.15	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	156-60-5	79	trans-1,2-Dichloroethene	0.68	ug/L	J	8260B	0.21	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	78-87-5	82	1,2-Dichloropropane	1.2	ug/L		8260B	0.10	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW15	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16		318	Depth To Water	8.68	ft							1/21/2013			
33-01	3301-MW16		411	Total Well Depth	19.85	ft							1/21/2013			
33-01	3301-MW16		328	TOC Elevation	46.58	ft AMSL							1/21/2013			
33-01	3301-MW16		319	Groundwater Elevation	37.90	ft AMSL							1/21/2013			
33-01	3301-MW16		320	pH	6.10	standard units							1/21/2013			
33-01	3301-MW16		323	Specific Conductivity	0.484	mS/cm							1/21/2013			
33-01	3301-MW16		325	Temperature	14.97	ºC							1/21/2013			
33-01	3301-MW16		330	Turbidity	23.0	NTUs							1/21/2013			
33-01	3301-MW16	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW16	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW16	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW16	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	7440-39-3	15	Barium Total	328	ug/L		6010C	1.00	10.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW16	7440-02-0	152	Nickel Total	2.45	ug/L	J	6010C	1.80	10.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW16	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW16	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW16	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-MW16	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	7440-62-2	209	Vanadium Total	1.63	ug/L	J	6010C	1.40	10.0	25	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW16	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW16	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW16	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW16	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW16	7440-48-4	53	Cobalt Total	2.10	ug/L	J	6010C	1.10	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW16	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-MW16	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591

Table 3 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 21 and 22, 2013
S&ME Project No. 1054-07-238E

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW16	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-MW16	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-EquipmentBlank	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-EquipmentBlank	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-EquipmentBlank	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	7440-39-3	15	Barium Total	1.20	ug/L	J	6010C	1.00	10.0	100	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-EquipmentBlank	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	10.0	50	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-EquipmentBlank	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-EquipmentBlank	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-EquipmentBlank	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-EquipmentBlank	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-EquipmentBlank	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-EquipmentBlank	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-EquipmentBlank	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-EquipmentBlank	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-EquipmentBlank	7440-48-4	53	Cobalt Total	1.10	ug/L	U	6010C	1.10	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-EquipmentBlank	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-EquipmentBlank	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-EquipmentBlank	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1		318	Depth To Water	4.15	ft							1/21/2013			
33-01	3301-SW1		411	Total Well Depth	---	ft							1/21/2013			
33-01	3301-SW1		328	TOC Elevation	49.22	ft AMSL							1/21/2013			
33-01	3301-SW1		319	Groundwater Elevation	45.07	ft AMSL							1/21/2013			
33-01	3301-SW1		320	pH	5.81	standard units							1/22/2013			
33-01	3301-SW1		323	Specific Conductivity	0.113	mS/cm							1/22/2013			
33-01	3301-SW1		325	Temperature	5.24	°C							1/22/2013			
33-01	3301-SW1		330	Turbidity	4.7	NTUs							1/22/2013			
33-01	3301-SW1	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-SW1	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-SW1	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-SW1	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	7440-39-3	15	Barium Total	66.0	ug/L	J	6010C	1.00	10.0	100	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-SW1	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	10.0	50	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-SW1	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-SW1	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-SW1	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/22/2013	1/23/2013	1/29/2013	591
33-01	3301-SW1	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-SW1	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	7440-66-6	213	Zinc Total	5.81	ug/L	J	6010C	3.80	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-SW1	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-SW1	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-SW1	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-SW1	7440-48-4	53	Cobalt Total	1.48	ug/L	J	6010C	1.10	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-SW1	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/22/2013	1/23/2013	1/25/2013	591
33-01	3301-SW1	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW1	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/22/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2		318	Depth To Water	5.44	ft							1/21/2013			
33-01	3301-SW2		411	Total Well Depth	---	ft							1/21/2013			

Table 3 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 21 and 22, 2013
S&ME Project No. 1054-07-238E

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-SW2		328	TOC Elevation	44.58	ft AMSL							1/21/2013			
33-01	3301-SW2		319	Groundwater Elevation	39.14	ft AMSL							1/21/2013			
33-01	3301-SW2		320	pH	6.97	standard units							1/21/2013			
33-01	3301-SW2		323	Specific Conductivity	0.105	mS/cm							1/21/2013			
33-01	3301-SW2		325	Temperature	9.17	ºC							1/21/2013			
33-01	3301-SW2		330	Turbidity	14.7	NTUs							1/21/2013			
33-01	3301-SW2	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-SW2	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-SW2	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-SW2	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	7440-39-3	15	Barium Total	66.7	ug/L	J	6010C	1.00	10.0	100	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-SW2	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	10.0	50	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-SW2	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	1.00	10	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-SW2	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-SW2	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/21/2013	1/23/2013	1/29/2013	591
33-01	3301-SW2	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-SW2	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	7440-66-6	213	Zinc Total	5.75	ug/L	J	6010C	3.80	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-SW2	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-SW2	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-SW2	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-SW2	7440-48-4	53	Cobalt Total	2.43	ug/L	J	6010C	1.10	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-SW2	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/21/2013	1/23/2013	1/25/2013	591
33-01	3301-SW2	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	3301-SW2	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591
33-01	Trip Blank	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/21/2013	1/24/2013	1/24/2013	591

NOTES:
NM = Not Measured
U = Compound detected below laboratory method detection limit.
J = Analyte detected, but below the laboratory reporting limit therefore the result is an estimated concentration.
D = The sample was analyzed at dilution.
ft. = feet
TOC = Top of Casing; TOC elevations from site survey.
AMSL = Above Mean Sea Level
(A or B) = Replacement Well
mS/cm = microsiemens/centimeter
ºC = Degrees Celcius
NTUs = Nephelometric Turbidity Units
nM = Nanomolar
mg/L = Milligrams per Liter
ug/L = micrograms per liter
MDL = Method Detection Limit
SWSL = Solid Waste Section Limit. (ref. NC DENR-DWM, Solid Waste Section February 23, 2007 memorandum)
Blank entries indicate not applicable.

APPENDIX III

(GROUNDWATER VELOCITY CALCULATIONS)

JOB NAME	Edgecombe County Landfill	JOB NO.	1054-07-238E
SUBJECT	Velocity Calculation	SHEET NO.	1 of 1
		DATE	1/30/2013
		COMPUTED BY	MSY
		CHECKED BY	SPW

PURPOSE:

To determine the average groundwater flow velocity.

CALCULATION:

$$V = \frac{Ki}{n}$$

Where:

V = Average Linear Groundwater Flow Velocity (feet/year = ft/yr)
K = Hydraulic Conductivity (ft/yr)
i = Average True Hydraulic Gradient (ft/ft)
n = Effective Soil Porosity (percent)

$K_{A\ ZONE}$ =	**5.95E-05**	cm/sec		
Convert $K_{A\ ZONE}$ from cm/sec to ft/min =	**5.95E-05**	*	1.9685	
=	0.00011713	ft/min		
Convert $K_{A\ ZONE}$ from ft/min to ft/yr =	0.00011713	ft/min *	1440	min/day
=	0.16866108	ft/day *	365	day/yr
=	**61.561**	**ft/year**		

Average True Gradient, i_{AVG}:	**0.0202**	**ft/ft**
n:	**15%**	

$$V = \frac{K_{A\ ZONE}\, i}{n}$$

$$V = \frac{61.561\ ft/yr * 0.0202\ ft/ft}{0.15} = 8.2722\ ft/yr$$

CONCLUSION:

The average groundwater flow velocity, V, equals **8.27 ft/yr**.

S&ME

JOB NO.	1054-07-238E
SHEET NO.	1 of 1
DATE	1/30/2013
COMPUTED BY	MSY
CHECKED BY	SPW

JOB NAME Edgecombe County Landfill
SUBJECT Hydraulic Gradient

PURPOSE:

To determine the average true hydraulic gradient.

GIVEN:

Well	GW Elev
MW-3B	72.17
MW-5	42.75
MW-7A	54.21
P-1	67.23

CALCULATION:

Calculate the average of three point solutions using wells MW-5, MW-7A, MW-3B or P-1.

GRADIENT:

$$i = \frac{h_1 - h_2}{L}$$

Where: i = Hydraulic Gradient (ft/ft)
$h_1 - h_2$ = Difference in Hydraulic Head (ft)
L = Distance Along Flow Path (ft)

Where distance between h_1 and h_2 is parallel to flow, determined by projection from 3 point problem.

$$i_1 = \frac{\text{MW-3B} - \text{MW-5}}{L_1} = \frac{72.17 - 42.75}{1{,}485} = \mathbf{0.01981} \quad \mathbf{ft/ft}$$

Use Elevation of Groundwater at MW-7A to establish 54.21' elevation between MW-3B and MW-5.

$$\frac{\text{MW-3B - MW-7A}}{\text{gradient (MW-3B and MW-5)}} = \frac{72.17 - 54.21}{0.01981} = 906.55 \quad \text{ft}$$

Draw line from MW-7A to point located 906.55 feet from MW-3B to MW-5.

Measure new distance between MW-3B and MW-5 perpendicular to line plotted for 54.21' contour. Recalculate Gradient.

$$i_1 = \frac{\text{MW-3B} - \text{MW-5}}{\text{New } L_1} = \frac{72.17 - 42.75}{1{,}475} = \mathbf{0.01995} \quad \mathbf{ft/ft}$$

True Hydraulic Gradient, i_1 = 0.01995 ft/ft

$$i_2 = \frac{\text{P-1} - \text{MW-5}}{L_2} = \frac{67.23 - 42.75}{1{,}320} = \mathbf{0.01855} \quad \mathbf{ft/ft}$$

Use Elevation of Groundwater at MW-7A to establish 54.21' elevation between P-1 and MW-5.

$$\frac{\text{P-1 - MW-7A}}{\text{gradient (P-1 and MW-5)}} = \frac{67.23 - 54.21}{0.018545} = 702.06 \quad \text{ft}$$

Draw line from MW-7A to point located 702.06 feet from P-1 to MW-5.

Measure new distance between P-1 and MW-5 perpendicular to line plotted for 52.21' contour. Recalculate Gradient.

$$i_2 = \frac{\text{P-1} - \text{MW-5}}{\text{New } L_2} = \frac{67.23 - 42.75}{1{,}202} = \mathbf{0.02037} \quad \mathbf{ft/ft}$$

True Hydraulic Gradient, i_2 = 0.02037 ft/ft

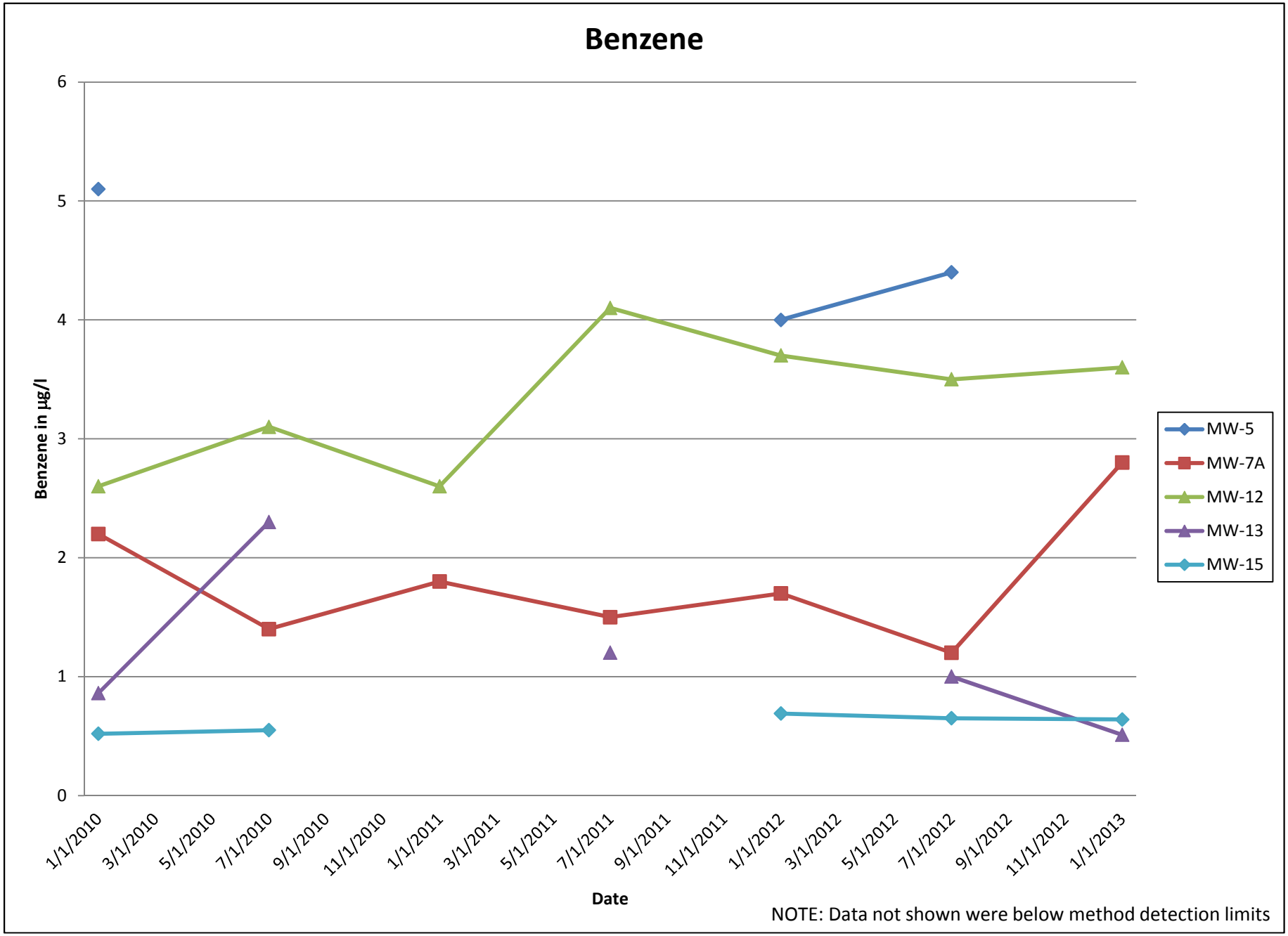
AVERAGE TRUE HYDRAULIC GRADIENT, i_{AVG} = 0.0202 ft/ft

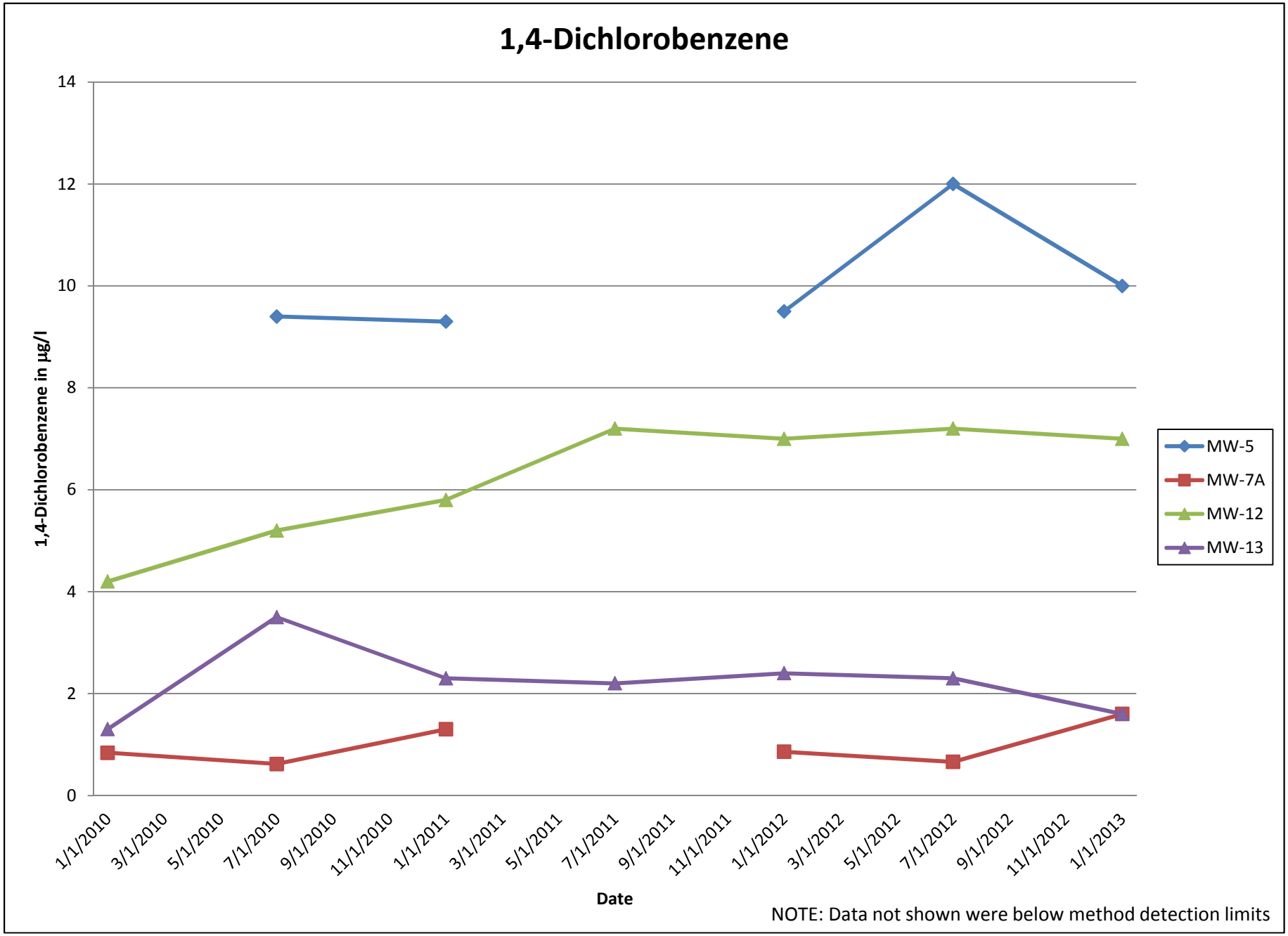
CONCLUSION:

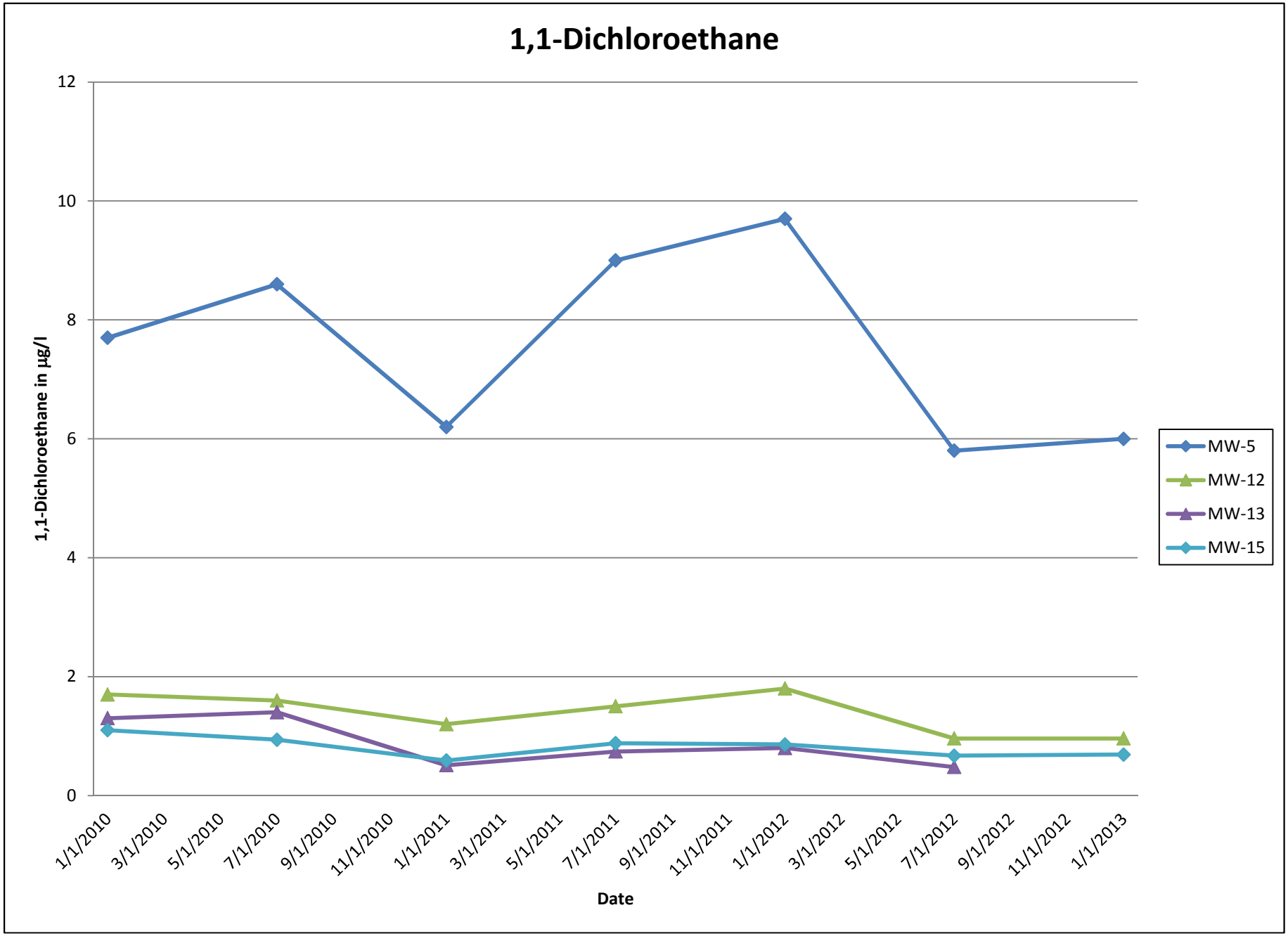
The Average True Hydraulic gradient, i_{AVG} equals **0.0202 ft/ft**.

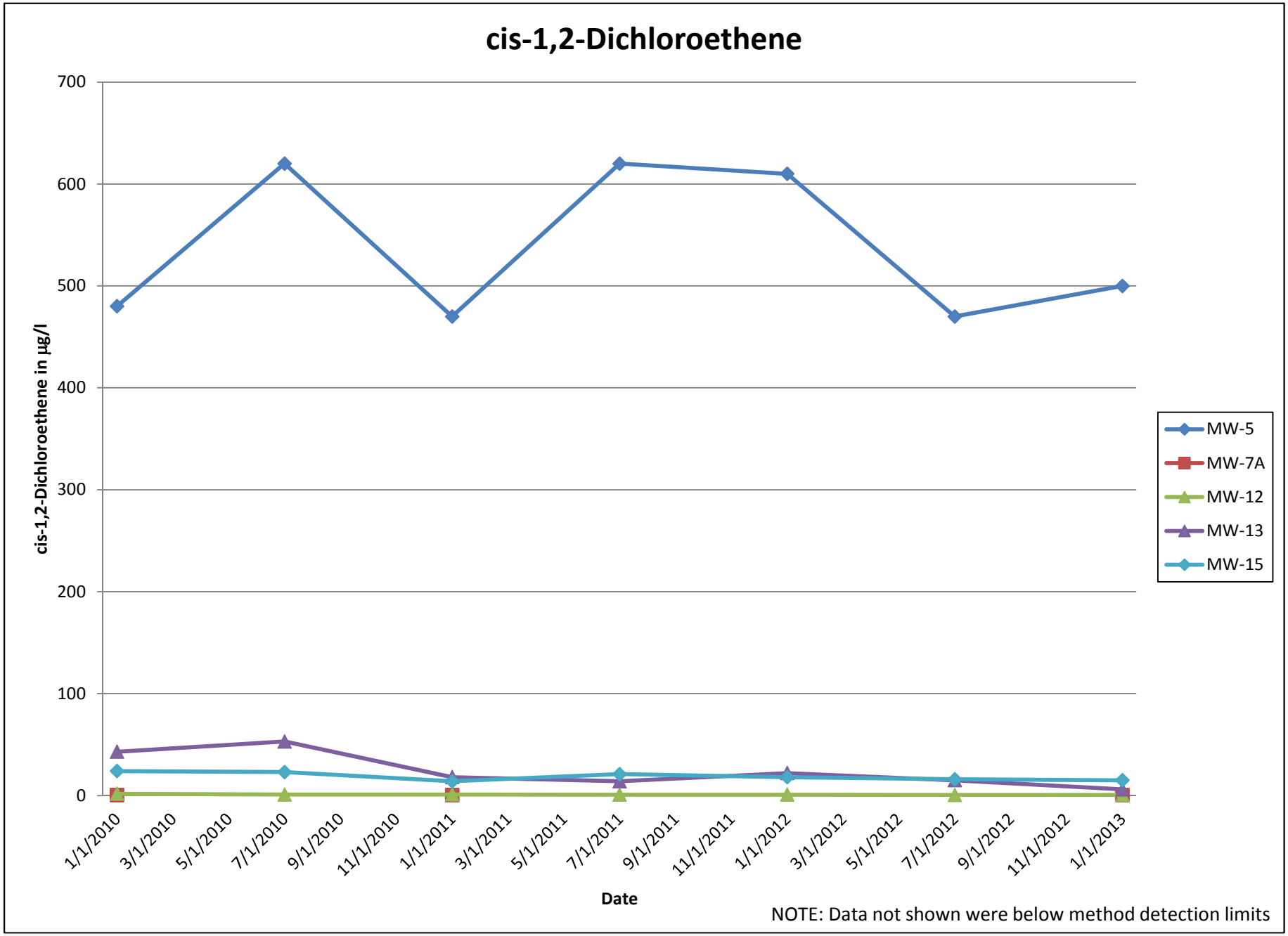
APPENDIX IV

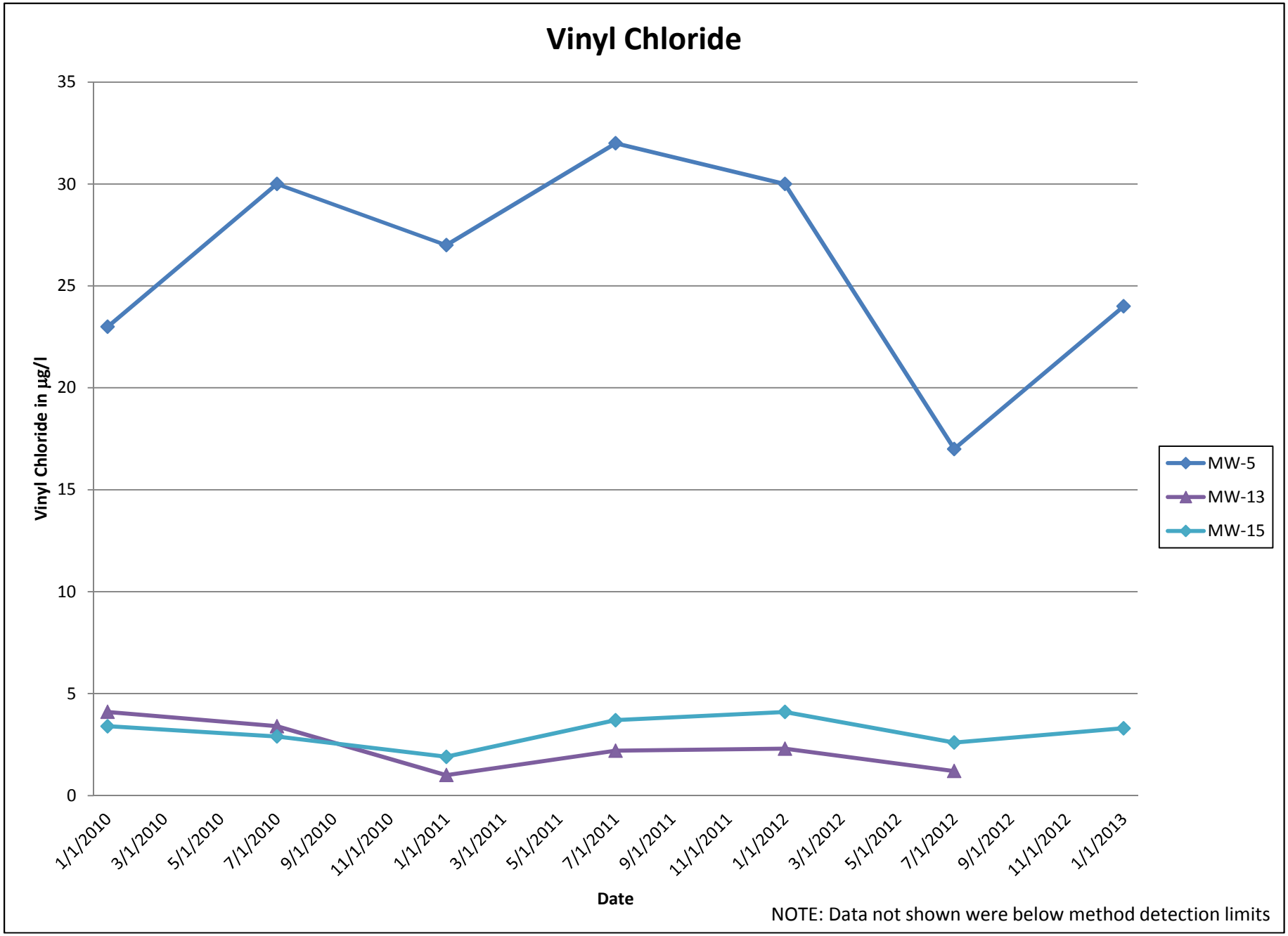
(TIME SERIES GRAPHS FOR MONITOR WELLS)

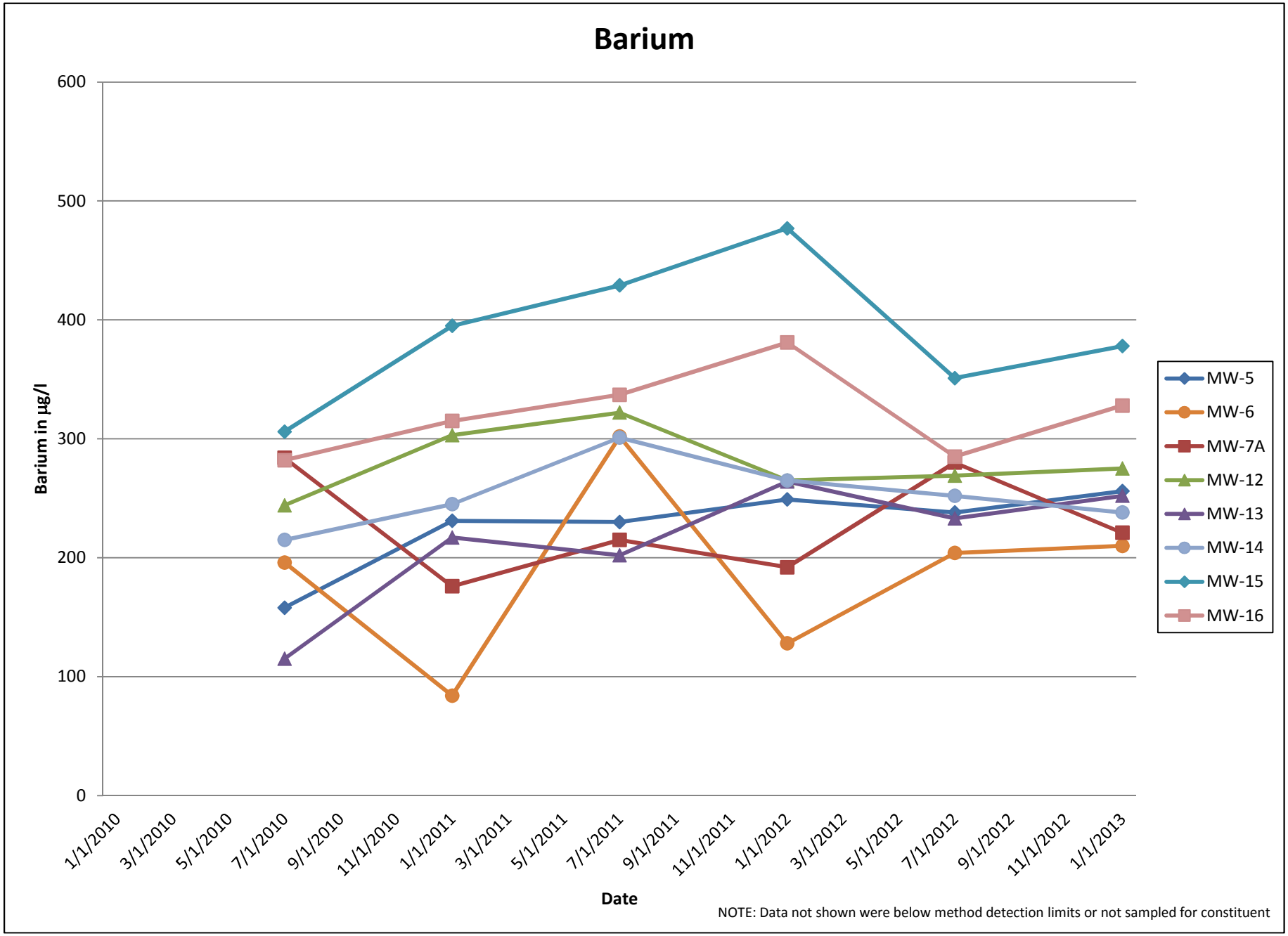

Benzene
Benzene in µg/l
6
5
4
3
2
1
0
1/1/2010
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
Date
MW-5
MW-7A
MW-12
MW-13
MW-15
NOTE: Data not shown were below method detection limits

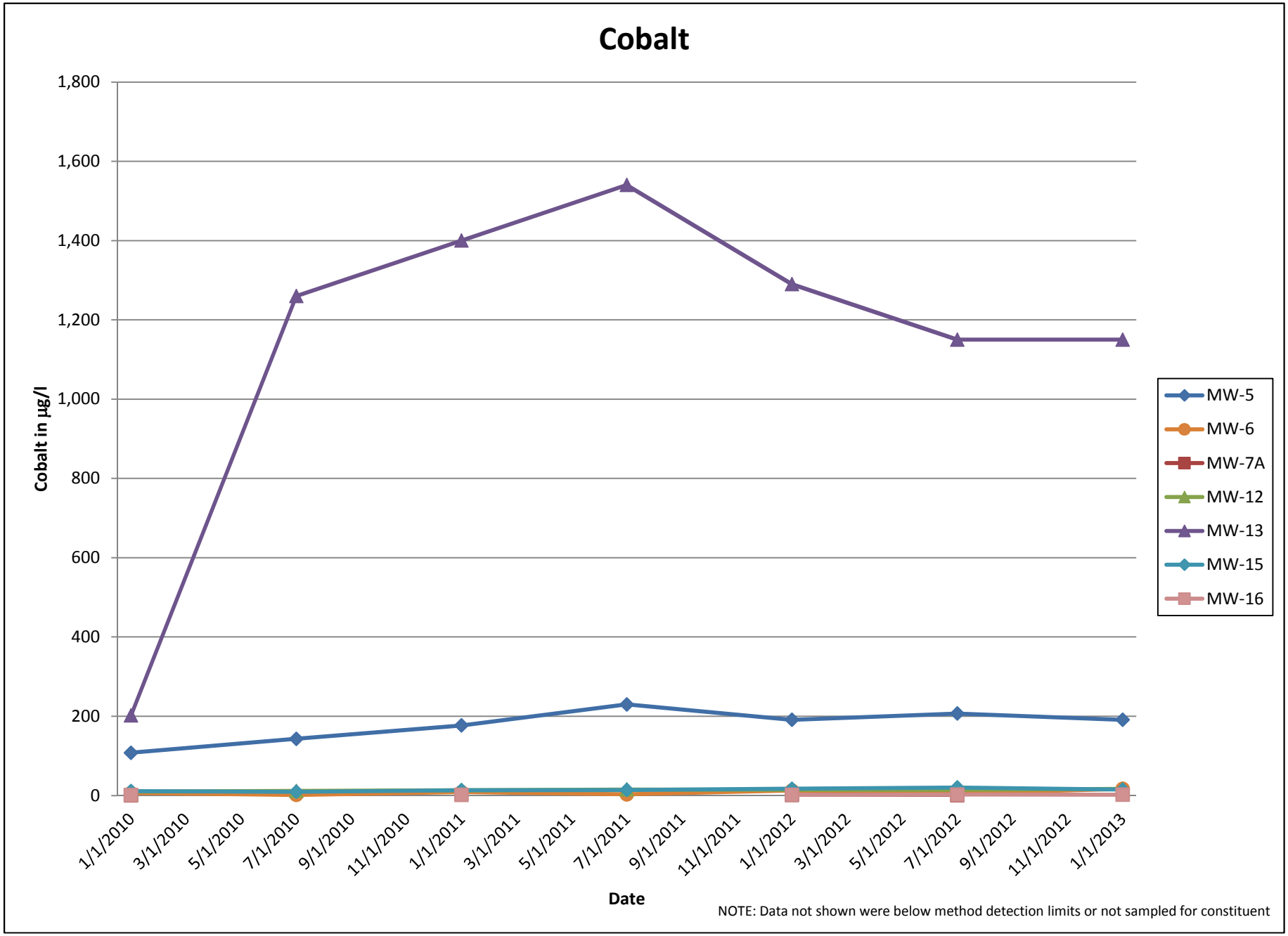

1,4-Dichlorobenzene
14
12
10
8
6
4
2
0
1,4-Dichlorobenzene in µg/l
1/1/2010
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
Date
MW-5
MW-7A
MW-12
MW-13
NOTE: Data not shown were below method detection limits

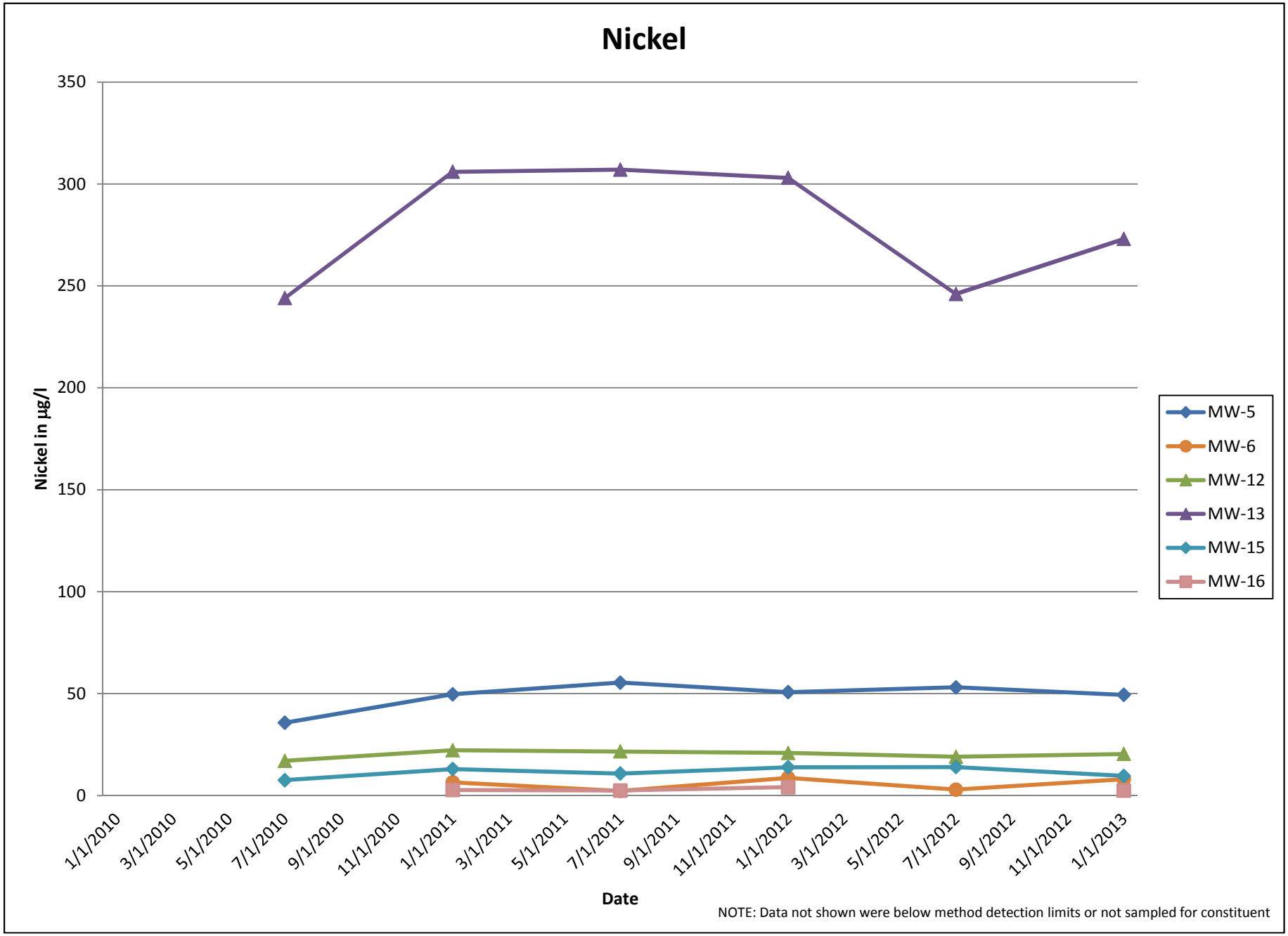

1,1-Dichloroethane
12
10
8
6
4
2
0
1,1-Dichloroethane in µg/l
1/1/2010
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
Date
MW-5
MW-12
MW-13
MW-15


cis-1,2-Dichloroethene
700
600
500
400
300
200
100
0
cis-1,2-Dichloroethene in µg/l
1/1/2010
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
Date
MW-5
MW-7A
MW-12
MW-13
MW-15
NOTE: Data not shown were below method detection limits


Vinyl Chloride
35
30
25
20
15
10
5
0
Vinyl Chloride in µg/l
1/1/2010
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
Date
MW-5
MW-13
MW-15
NOTE: Data not shown were below method detection limits


Barium
600
500
400
300
200
100
0
Barium in µg/l
1/1/2010
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
Date
MW-5
MW-6
MW-7A
MW-12
MW-13
MW-14
MW-15
MW-16
NOTE: Data not shown were below method detection limits or not sampled for constituent


Cobalt
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
Cobalt in µg/l
1/1/2010
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
Date
MW-5
MW-6
MW-7A
MW-12
MW-13
MW-15
MW-16
NOTE: Data not shown were below method detection limits or not sampled for constituent


Nickel
350
300
250
200
150
100
50
0
Nickel in µg/l
1/1/2010
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
7/1/2011
9/1/2011
11/1/2011
1/1/2012
3/1/2012
5/1/2012
7/1/2012
9/1/2012
11/1/2012
1/1/2013
Date
MW-5
MW-6
MW-12
MW-13
MW-15
MW-16
NOTE: Data not shown were below method detection limits or not sampled for constituent