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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).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- 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):

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

Name: David Wells Phone: (919) 872-2660

E-mail: dwells@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	July 14-15, 2009

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) MNA Parameters
☐ Other(specify)

Notification attached?

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

Certification

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

David B. Wells — Consultant/Geologist — (919) 872-2660

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

David B. Wells — 9/25/09 — ~~12/22/08~~

Signature — Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED 9/25/09 SEAL 1607 GEOLOGIST DAVID BRIAN WELLS

Revised 01/2007

JULY 2009
ENVIRONMENTAL COMPLIANCE MONITORING REPORT
EDGECOMBE COUNTY LANDFILL
(PERMIT # 33-01)
TARBORO, NORTH CAROLINA

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

Prepared for:

Edgecombe County
PO Box 10
Tarboro, NC 27886

Prepared by:

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

September 25, 2009

Michelle L. Logut
Environmental Scientist

Thomas P. Raymond, P.E.
Senior Consultant

David B. Wells, P.G.
Project Manager

NORTH CAROLINA LICENSED 9/25/09 SEAL 1607 GEOLOGIST DAVID BRIAN WELLS

September 25, 2009

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

Attention: Mr. Danny Bagley, Edgecombe County Solid Waste Manager

Reference: Environmental Compliance Monitoring Report - July 2009
Edgecombe County Landfill
Facility Permit No. 33-01
Tarboro, North Carolina
S&ME Project No. 1054-07-238B

Dear Mr. Bagley:

S&ME, Inc. (S&ME) is pleased to submit this report documenting the environmental compliance monitoring conducted on July 15 - 16, 2009 at the Edgecombe County Landfill located in Tarboro, North Carolina. These services have been performed in general accordance with S&ME Proposal No. P4622-09V, dated March 18, 2009. A compact disk (CD) containing an electronic copy of this report in portable document format (.pdf) and **Table 1** 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).

The attached Environmental Compliance Monitoring Report presents the Assessment and Corrective Action Monitoring results for July 2009 at the Edgecombe County Landfill. Laboratory analyses performed on groundwater samples collected from eleven 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 groundwater elevation data for the monitor well network are presented herein. A groundwater contour map prepared from the static water levels measured in monitor wells and piezometers was used to estimate the groundwater flow direction and hydraulic gradient at the Edgecombe County Landfill at the time of this monitoring event.

According to the *Corrective Action Plan Review* letter dated January 16, 2009, NCDENR-DWM Section recommends continuance of semiannual sampling for select analytes on the Appendix I constituent list and the full suite of monitored natural attenuation (MNA) parameters.

S&ME appreciates the opportunity to provide our environmental services to Edgecombe County and hopes that you find this report to be complete and informative. We would welcome the opportunity to discuss our findings and recommendations with you should you have any questions. 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.

Michelle L. Logut
Environmental Scientist

David B. Wells, P.G.
Project Manager

Thomas P. Raymond, P.E.
Senior Consultant

cc: Sam Watts, S&ME, Inc.

Attachment: Environmental Compliance Monitoring Report - July 2009

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JULY 2009
ENVIRONMENTAL COMPLIANCE MONITORING REPORT
EDGECOMBE COUNTY LANDFILL
(PERMIT # 33-01)
TARBORO, NORTH CAROLINA

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 and a construction & demolition (C&D) debris landfill unit. 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 (NCDENR) 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 July 2009 monitoring event as required by § .0600 and .1632 of the Solid Waste Rules.

The July 2009 monitoring event included sampling for groundwater quality from the following wells selected from 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 surface water samples (upstream and downstream) are typically collected to review surface water conditions. Neither the upstream nor the downstream surface water samples were collected during the July 2009 monitoring event as Jerry's Creek was dry at the time of our site visit. Groundwater monitoring locations are illustrated on **Figure 2**.

1.2 Background

Groundwater has been monitored at the landfill facility since 1994 in accordance with § .1632 of the Solid Waste Rules, the facility's *Water Quality Monitoring Plan* (WQMP) dated September 1994, and the facility's revised WQMP dated August 2009.

Volatile organic compounds (VOCs) and inorganic constituents have been detected above North Carolina groundwater protection standards in groundwater samples collected from groundwater compliance monitoring points used to monitor the Edgecombe County Landfill. Previous statistical evaluation of the groundwater monitoring data indicated that a release of VOCs and inorganic constituents had occurred from the landfill. In accordance with NCDENR Division of Waste Management (DWM), Solid Waste Section (Section) 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 inorganic constituents:

- 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 July 2009 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 JULY 2009 SAMPLING EVENT

On July 15 - 16, 2009, S&ME personnel conducted semiannual groundwater sampling at eleven monitoring wells (MW-3B, MW-4, MW-5, MW-6, MW-7A, MW-9, MW-12, MW-13, MW-14, MW-15, and MW-16) at the Edgecombe County Landfill (**Figure 2**). Discussion of field sampling methods and locations for the July 2009 groundwater sampling event are provided below. S&ME personnel performed sampling at the facility in general accordance with the Solid Waste Rules and the facility's WQMP, dated August 2009.

Prior to sampling the monitoring network, the monitor wells and piezometers listed in the WQMP network of points for groundwater elevation measurements were opened. The water level was allowed to equilibrate with atmospheric conditions in each well before gauging the liquid level. After approximately one-half hour, the depth to the static groundwater level in each groundwater gauging location was measured. The measurements were collected to review the groundwater flow direction and estimate the hydraulic gradient at the site at the time of the sampling event. 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. Field personnel wore clean protective/non-reactive gloves at each well location when collecting water level measurements. Water level measurements are presented in **Table 1** and **Figure 2**.

After the static groundwater level measurements were made from the wellhead, stagnant water from each sampled well was purged using a peristaltic pump. New silicon tubing placed through the drive of the peristaltic pump was attached to a section of dedicated Teflon-lined tubing that was inserted into the monitor well. 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 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 30 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 1**. One duplicate groundwater sample was collected from MW-12 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**.

Once the field parameters of the purged groundwater had stabilized, samples were collected directly from groundwater pumped into clean containers provided by the

laboratory. Groundwater was pumped through the section of silicon tubing that was inserted into the peristaltic pump into the sample containers. Once filled, the sample containers were sealed, labeled, and placed into an insulated container with ice. The samples were submitted under chain-of-custody protocols to Environmental Conservation Laboratories, Inc. (ENCO), a North Carolina-certified laboratory. ENCO tested the samples for select constituents listed in 40 CFR 258 Appendix I and several additional monitored natural attenuation (MNA) parameters.

S&ME personnel also collected gas-phase vapor samples from one background monitor well (MW-4) and three compliance monitor wells (MW-5, MW-12, and MW-16). The vapor samples were collected with a gas stripping cell provided by Microseeps Laboratory (Microseeps). Stagnant water from each sampled well was purged using a peristaltic pump. New silicon tubing placed through the drive of the peristaltic pump was attached to a section of dedicated Teflon-lined tubing that was inserted into the water column in the monitor well. A new section of polyethylene tubing connected the inlet port of the gas stripping cell to the silicon tubing through the drive of the peristaltic pump. A ring stand and clamp were used to secure the cell assembly during sampling. Approximately 20 milliliters (mL) of air was injected into the cell with a new syringe and plunger provided by Microseeps. Groundwater was pumped through the cell at approximately 240 mL per minute for approximately 15 minutes, which is the equilibrium time needed to strip gas at this flow rate. Once the equilibrium time expired, approximately 15 mL of sample gas was withdrawn from the cell with the syringe and plunger, and the withdrawn gas sample was injected into a new sample vial provided by the laboratory. Once filled, the sample vials were sealed, labeled, and placed into a cardboard box with packing material. The samples were submitted under chain-of-custody protocols to Microseeps in Pittsburgh, Pennsylvania. Microseeps tested the vapor samples for hydrogen by Method AM20GAX.

The results of analytical testing are discussed in **Section 4.1** and a summary of constituent concentrations are presented in **Table 1** and **Table 2**. A copy of the laboratory reports is provided in **Appendix I**. A compact disk (CD) with an electronic copy of **Table 1** 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 upgradient 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, the drainage features in the active landfill area, and the farm pond located in the southeast corner of the site. During flood conditions, the southwest perimeter trench may recharge the aquifer. The farm pond under normal pool elevations is a recharge feature to 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 thirteen piezometers of the site monitoring network were measured prior to sampling. Static water level is defined as the depth to water in a monitor well or piezometer measured from the top of casing (TOC). Static water levels for the monitoring network are presented in **Table 1**.

Static water level measurements were used to calculate the corresponding groundwater elevations based on surveyed 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 July 15, 2009 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) may be calculated by the 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 slug tests were previously performed at the site by Law Engineering Company (Law) and S&ME using rising and falling head test techniques. The slug 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.

Calculations performed using the equation and input values above estimate that the average groundwater flow velocity, V, for the site was approximately 8.29 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 July 2009 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 6010B (cobalt) and Method 8260B (VOCs). Groundwater from selected compliance wells were also sampled for additional MNA parameter analyses; the test methods are listed in the ENCO laboratory report. Results from the groundwater laboratory analyses are presented in the following sections. The field measurements and analytical results are summarized on **Table 1,** and 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 reported detection limit (RDL) 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). 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 nine Appendix I constituents were detected at levels that are equal to or exceed the **SWSL** concentration in one or more samples in the July 2009 monitoring event:

July 2009 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	cobalt
MW-4	--
MW-9	--
Compliance Monitor Wells	**Appendix I Detected Constituents Equal to or Greater Than Their SWSL**
MW-5	benzene, chlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, vinyl chloride, cobalt
MW-6	--
MW-7A	benzene
MW-12	benzene, chlorobenzene, 1,4-dichlorobenzene, cobalt
MW-13	benzene, chlorobenzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, trichloroethene, vinyl chloride, cobalt
MW-14	--
MW-15	cis-1,2-dichloroethene, 1,2-dichloropropane, vinyl chloride
MW-16	--

-- = No Appendix I constituent concentrations were detected above SWSL

Volatile Organic Compounds

No Appendix I VOC concentrations were detected by USEPA Method 8260B in the groundwater samples collected and analyzed from the upgradient background monitor wells MW-3B, MW-4, and MW-9 nor were they detected in the groundwater samples collected from the downgradient 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

Cobalt was detected above its SWSL in the groundwater sample collected from background well MW-3B as well as the groundwater samples collected from compliance wells MW-5, MW-12, and MW-13.

4.1.2 Compare Background and Compliance Detections to Standards

The following table summarizes the monitor well locations where six Appendix I constituents were detected above the **2L Standard or GWPST** (presented in **Table 2**). The compounds were detected in one or more groundwater samples analyzed for the July 2009 monitoring event:

July 2009 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	--
MW-4	--
MW-9	--
Compliance Monitor Wells	**Appendix I Detected Constituents Above 2L Standard or GWPST**
MW-5	benzene, cis-1,2-dichloroethene, vinyl chloride, cobalt
MW-6	--
MW-7A	benzene
MW-12	benzene, 1,4-dichlorobenzene
MW-13	benzene, 1,4-dichlorobenzene, vinyl chloride, cobalt
MW-14	--
MW-15	1,2-dichloropropane, vinyl chloride
MW-16	--

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

No Appendix I VOC or inorganic compound concentrations were detected by USEPA Method 8260B or 6010B, respectively, in the groundwater samples collected from the upgradient background monitor wells MW-3B, MW-4, and MW-9, nor were they detected in the groundwater samples collected from the downgradient compliance monitor wells MW-6, MW-14, and MW-16. Constituent concentrations were detected above their respective 2L Standard or GWPST in groundwater samples collected from monitor wells MW-5, MW-7A, MW-12, MW-13, and MW-15.

Constituent detections above the 2L Standard or GWPST trigger implementing the assessment monitoring program in general accordance with § .1634 of the Solid Waste Rules. However, constituents above the 2L Standard or GWPST were previously detected, therefore 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 in general accordance with Solid Waste Rules defined under 15A NCAC 13B.1633(c)(3) and .1634(g)(2); the Nature and Extent Study (NES) was prepared in general accordance with Solid Waste Rules defined under 15A NCAC 13B.1634(g)(1); the Assessment of Corrective Measures (ACM) was performed in general accordance with Solid Waste Rules defined under 15A NCAC 13B.1635; and the Corrective Action Plan (CAP) was prepared and approved by the NCDENR in general accordance with Solid Waste Rules

defined under 15A NCAC 13B.1636. The corrective measures are in the process of being implemented, therefore, monitoring for this event is also for compliance with § .1637 (a)(1) under Implementation of the Corrective Action Program.

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). Eleven Appendix I constituents (summarized in **Table 2**) were detected above the MDL in one or more groundwater samples collected during the July 2009 monitoring event.

4.1.4 Geochemical / Monitored Natural Attenuation (MNA) Parameters

Groundwater samples were analyzed for geochemical and monitored natural attenuation (MNA) parameters in upgradient background monitor wells MW-3, MW-4, and MW-9, and downgradient compliance monitor wells MW-5, MW-6, MW-7A, MW-12, MW-13, MW-14, MW-15, and MW-16. The analyses were performed to review the status of previously discovered impact to the groundwater from landfill leachate, as well as to review the geochemical parameters that may indicate that the degradation process to reduce leachate constituent concentrations is occurring. The MNA parameters and field parameters measured at the background and compliance monitor wells, were used to assess the natural biological degradation process of constituents released to the groundwater. **Table 3** is a summary of the geochemical and MNA constituent results from field measurements and from analytical testing performed during the July 2009 monitoring event.

The field parameter data measured using the YSI® multi meter with flow through cell (or equivalent) was reviewed to assess the potential biological activity and the type of environment that appears to be helping to destroy concentrations of source contaminants (i.e. tetrachloroethene, trichloroethene, and hydrocarbons) present in landfill leachate. Low oxygen reduction potential (ORP) measurements often indicate a reducing environment. Compared to background monitor wells, ORP readings were lower than background in MW-5, MW-6, MW-7A, MW-13, MW-14, MW-15, and MW-16. Dissolved oxygen (DO) concentrations that are less than 1 milligram per liter (mg/L) indicate anaerobic conditions in the aquifer. Low DO measurements were observed in background wells MW-3B and MW-9 and compliance wells MW-5, MW-6, MW-7A, MW-12, MW-13, MW-14, MW-15, and MW-16. From the field parameter measurements, a reducing anaerobic environment appears to be present near and downgradient to sources of petroleum and chlorinated solvents.

The review of geochemical and MNA parameter data in tandem with groundwater quality data indicate that reductive dechlorination is occurring under anaerobic conditions at the site. Evidence of this are the elevated alkalinity, chloride, carbon dioxide, and methane values compared to upgradient or background sample measurements. In addition, monitor well MW-13 is the only sample location in the July 2009 event that had a low level detection of trichloroethene (TCE). The groundwater sample from this same well had daughter compound concentrations from the reduction of TCE including 1,1-

dichloroethane, cis-1,2-dicloroethene, and vinyl chloride, as well as compounds indicative of hydrocarbon degradation including benzene, chlorobenzene, and 1,4-dichlorobenzene. Similarly, low levels of chlorinated daughter compounds and/or hydrocarbons were also detected in wells MW-5, MW-7A, MW-12, and MW-15. Chloride and ethene are metabolic byproducts of the total reduction of chlorinated solvents. Chloride concentrations were detected in the samples collected from background wells MW-3B, MW-4, and MW-9 and downgradient compliance wells MW-5, MW-6, MW-7A, MW-12, MW-13, MW-14, MW-15, and MW-16. Ethene was detected in the sample collected from downgradient compliance well MW-5.

In addition, hydrogen is generated during anaerobic fermentation of hydrocarbons (Microseeps, Inc.). The review of hydrogen data indicates that reductive anaerobic fermentation of hydrocarbons may be occurring at the site. Evidence of this is the elevated hydrogen values in compliance wells compared to the upgradient or background sample measurement at monitor well MW-4.

Further analyses for the geochemical parameters from selected monitor wells in the network will be necessary to review influences on constituent concentrations by naturally occurring biological degradation processes.

4.1.5 Quality Control

Quality assurance and quality control of sampling and analysis 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 select Appendix I constituents by the same methods and for the same target constituents as the record samples. Duplicate sample analysis documents the consistency of laboratory testing between samples, and equipment blank sample analysis documents 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 the Appendix I VOCs and the inorganic constituent cobalt detected in the record and in the duplicate sample collected from monitor well MW-12 were within an acceptable tolerance level and indicate a suitable replication of results from the test procedures. Chloroethane was only detected in the duplicate sample collected from monitor well MW-12 and not in the record sample collected from MW-12. The chloroethane results from the record and duplicate sample analyses (<0.30 micrograms per liter [µg/L] reported for the record sample and 1.9 µg/L detected in the duplicate sample) also fall within an acceptable tolerance level and indicate a suitable replication of results from the test procedures.

No target constituents were detected in the equipment blank sample.

No constituent concentrations were detected in the trip blank sample. It is important to note that the laboratory MDL for vinyl chloride (0.30 µg/L) for groundwater samples is greater than the 2L Standard of 0.015 µg/L. Therefore, vinyl chloride may have been present at concentrations above the 2L Standard, but was reported as being below the MDL.

4.2 Surface Water Analytical Data

No surface water samples were collected as part of the July 2009 monitoring event because the two surface water sampling points (upstream and downstream) located on Jerry's Creek were dry at the time of our site visit. Groundwater monitoring locations are illustrated on **Figure 2**.

5.0 DISCUSSION OF GROUNDWATER DETECTIONS

As discussed in **Section 4.0**, the following eleven individual Appendix I constituents were detected during the July 2009 monitoring event:

July 2009 Groundwater Sampling Event
Appendix I Constituent Concentration Detected Above MDL

Background Monitor Wells	Appendix I Detected Constituents Detected Above MDL
MW-3B	cobalt
MW-4	--
MW-9	--
Compliance Monitor Wells	**Appendix I Detected Constituents Detected Above MDL**
MW-5	benzene, chlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, vinyl chloride, cobalt
MW-6	cobalt
MW-7A	benzene, chlorobenzene, 1,4-dichlorobenzene, cobalt
MW-12	benzene, chlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, cobalt
MW-13	benzene, chlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, trichloroethene, vinyl chloride, cobalt
MW-14	--
MW-15	chlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,2-dichloropropane, vinyl chloride, cobalt
MW-16	cobalt

-- = No Appendix I constituent concentrations were detected above MDL

The statistical methods described in the facility's WQMP (S&ME, 2009) are the same as those described in Section .1632 (g) of the Solid Waste Rules for statistical evaluation of groundwater monitoring data for considering whether or not a detected analyte should be considered a release from the facility. S&ME has previously performed statistical evaluations of groundwater monitoring data and included this demonstration in sampling reports previously submitted to the Section.

The historical data pool has been updated and included in this report for this sampling event. Since monitor wells MW-12, MW-13, MW-14, MW-15, and MW-16 were installed in August 2008, this sampling event represents only the second data set collected from these monitor wells. Therefore, no statistical analysis was performed as part of the July 2009 monitoring event. S&ME will perform statistical analysis after data from the

second semiannual event scheduled for December 2009/January 2010 is incorporated into the historical analytical database.

5.1 Qualitative Groundwater Review of Analytical Results

The data set used to evaluate the July 2009 detections at the Edgecombe County Landfill facility includes 33 groundwater sampling events completed between September 1994 and July 2009. Monitor wells MW-12, MW-13, MW-14, MW-15, and MW-16 were installed in August 2008 and sampled for the second time during the July 2009 sampling event. Analytical data sets should be collected for approximately four consecutive monitoring events from monitor wells MW-12 through MW-16 so that confidence level of the statistical analyses or trend evaluations is sufficient to characterize detections in the groundwater analyzed from these wells. Therefore, trend evaluations described in the following section only address results for three of the eight compliance wells currently used to monitor water quality at the facility: MW-5, MW-6, and MW-7A.

5.1.1 Background Monitor Wells MW-3B, MW-4, and MW-9

Appendix I VOCs were not detected above the laboratory MDLs in the samples collected from background monitor wells MW-3B, MW-4, and MW-9. The Appendix I inorganic constituent, cobalt, was detected above the MDL and SWSL in the background monitor well MW-3B. Cobalt was not detected above the MDL in any of the other background monitor wells.

The time series graph of cobalt concentrations detected in monitor well MW-3B indicates that cobalt was consistently detected at concentrations less than 35 µg/L until January 2007. The cobalt detections in 2007, 2008, and 2009 indicate a slight decrease in concentrations. However, there are insufficient data to identify a discernable trend for cobalt at this time. A time series graph of cobalt concentrations detected at MW-3B is presented in **Appendix IV**.

5.1.2 Compliance Monitor Wells MW-5, MW-6, and MW-7A

During this groundwater sampling event, eight Appendix I VOCs were detected in the compliance monitor well network at concentrations above their respective SWSLs. The Appendix I inorganic compound, cobalt, was also detected in the compliance well network above the SWSL. The following table summarizes the findings shown on the time series graphs for the compliance monitor wells MW-5, MW-6, and MW-7A.

Trend Graph Summary for Appendix I Compounds in Compliance Monitor Wells (µg/L)

Well ID	Constituent	Standard	Detections Above Standard	Number of Detections	SWSL	Trend
MW-5	benzene	1	21	21	1	No Trend
	chlorobenzene	50	0	26	3	No Trend
	1,1-dichloroethane	70	17	32	5	Downward
	cis-1,2-dichloroethene	70	32	32	5	Upward
	vinyl chloride	0.015	28	28	1	No Trend
	cobalt	70	10	26	1	Upward
MW-6	No Constituents Detected Above SWSL	NA	NA	NA	NA	NA
MW-7A	benzene	1	6	6	1	No Trend

Monitor Well MW-5

Benzene, chlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, vinyl chloride and cobalt concentrations were detected exceeding their respective SWSLs in the groundwater sample collected from MW-5 during the July 2009 sampling event. Benzene, cis-1,2-dichloroethene, vinyl chloride, and cobalt were also detected above their respective 2L Standards or GWPST in the sample collected from compliance monitor well MW-5. The constituents listed above have historically been detected in MW-5. Time series graphs of benzene, chlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, vinyl chloride, and cobalt concentrations detected at MW-5 are presented in **Appendix IV**.

Monitor Wells MW-6

No Appendix I VOCs were detected above the MDLs in the groundwater sample collected from monitor well MW-6 during the July 2009 sampling event. Cobalt was detected above the laboratory MDL in the sample collected from compliance monitor well MW-6, but below its respective SWSL.

Monitor Well MW-7A

Four Appendix I constituents were detected at concentrations above their laboratory MDLs in the groundwater sample collected from compliance monitor well MW-7A during the July 2009 sampling event. Benzene was the only constituent detected in the groundwater sample collected from MW-7A above its respective SWSL and 2L Standard. A time series graph of benzene concentrations detected at MW-7A is presented in **Appendix IV**.

5.2 Previous Investigations Selected Corrective Measures Remedy

Investigations relevant to the constituents detected during detection monitoring were performed to delineate the area impacted by potential constituents of concern (COCs). The findings of the investigation to delineate the potential COCs are summarized in the NES report (S&ME, June 2008). Potential COCs were further reviewed through an Alternate Source Demonstration (ASD) study (S&ME, June 2008). The ASD ruled out potential COCs that were likely found naturally in the environment on-site.

Based on the NES and ASD, the Assessment of Corrective Measures (ACM) report (S&ME, June 2008) was prepared to evaluate feasible technologies to remediate COCs documented in the NES. Based on the feasibility study of the ACM, a remedy for corrective measures was selected and described in a formal Corrective Action Plan (CAP) (S&ME, June 2008). The proposed remedy will utilize a hydraulic barrier, improvements to the landfill cap, and monitored natural attenuation. The improvements to the grading on the landfill cap have been initiated as part of the corrective measures program.

6.0 CONCLUSIONS AND RECOMMENDATIONS

S&ME performed semiannual sampling at the Edgecombe County Landfill in Tarboro, North Carolina. During the July 2009 sampling event, groundwater elevations were calculated from water levels measured in approximately 28 points in the monitoring network described in the WQMP. Groundwater samples were collected from three background (upgradient) monitor wells and eight compliance (downgradient) monitor wells. No surface water samples were collected as part of the July 2009 monitoring event because the two surface water sampling points (upstream and downstream) located on Jerry's Creek were dry at the time of our site visit.

6.1 Summary of July 2009 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 8.29 ft/yr.

- Constituent concentrations of eleven Appendix I analytes were detected in one or more samples collected during the July 2009 monitoring event. Nine of the eleven Appendix I analytes were detected in one or more samples at concentrations equal to or exceeding their respective SWSLs.

- Six Appendix I analytes were detected at concentrations exceeding their respective 2L Standards or GWPSTs including benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, 1,2-dichloropropane, vinyl chloride, and cobalt. Monitor wells with one or more constituent concentrations above the standards included MW-5, MW-7A, MW-12, MW-13, and MW-15.

- Time series graphs of historical concentration data were reviewed in place of statistical analysis for the July 2009 sampling event. Cobalt concentrations detected in groundwater from background well MW-3B had no discernable trend. Monitor well MW-5 test data indicated upward trends in concentrations of cis-1,2-dichloroethene and cobalt. A downward trend in concentrations of 1,1-dichloroethane was indicated by test data from monitor well MW-5. The remaining constituents had no discernable trends.

- 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;

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

- The review of geochemical and MNA parameter data in tandem with groundwater quality data indicate that reductive dechlorination is occurring under anaerobic conditions at the site.

6.2 Recommendations

The results of the July 2009 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. The applicable sampling and analysis requirements described in the revised WQMP should be implemented during the next semiannual sampling event scheduled in January 2010. S&ME recommends that the schedule for the corrective actions be maintained, and that the corrective measures, including re-grading activities that have already been initiated, and the design work for the hydraulic barrier and permitting activities move forward as scheduled.

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 select analytes on the Appendix I constituent list. Further analyses for the geochemical and MNA parameters from the sampled wells in the network will be necessary to review concentrations and to evaluate aquifer zones influenced by naturally occurring biological degradation. After the four baseline data sets of MNA parameters are performed, targeted analytes and select monitor well locations will be used to review future MNA parameters.

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*, August 2004.

Department of Environment and Natural Resources, Division of Water Quality, *15A NC Administrative Code Subchapter 2L .0200 Groundwater Quality Standards*, December 2005.

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., *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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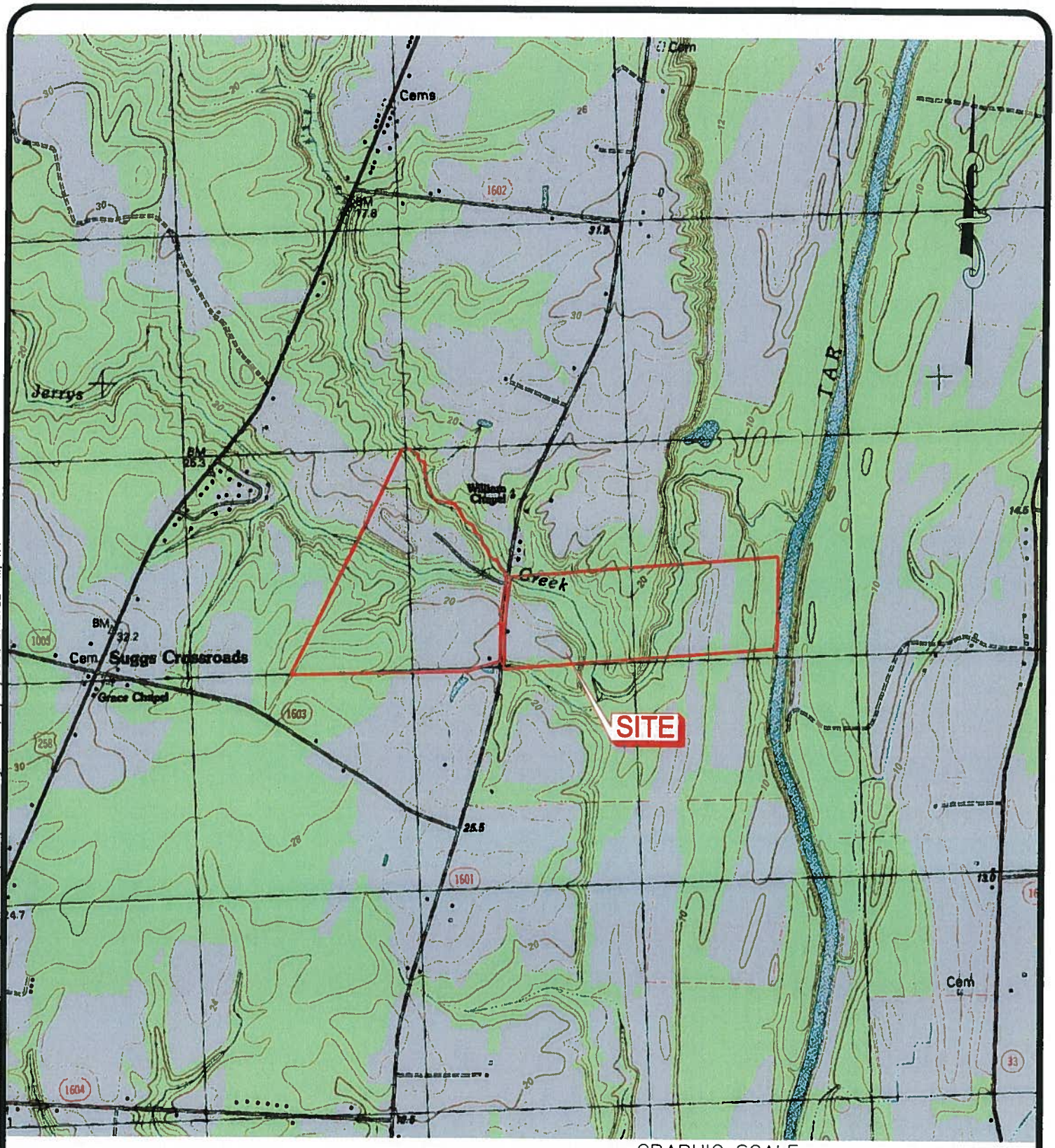
S&ME, Inc., *Water Quality Monitoring Plan, Edgecombe County Landfill, Tarboro, North Carolina,* June 30, 2008.

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



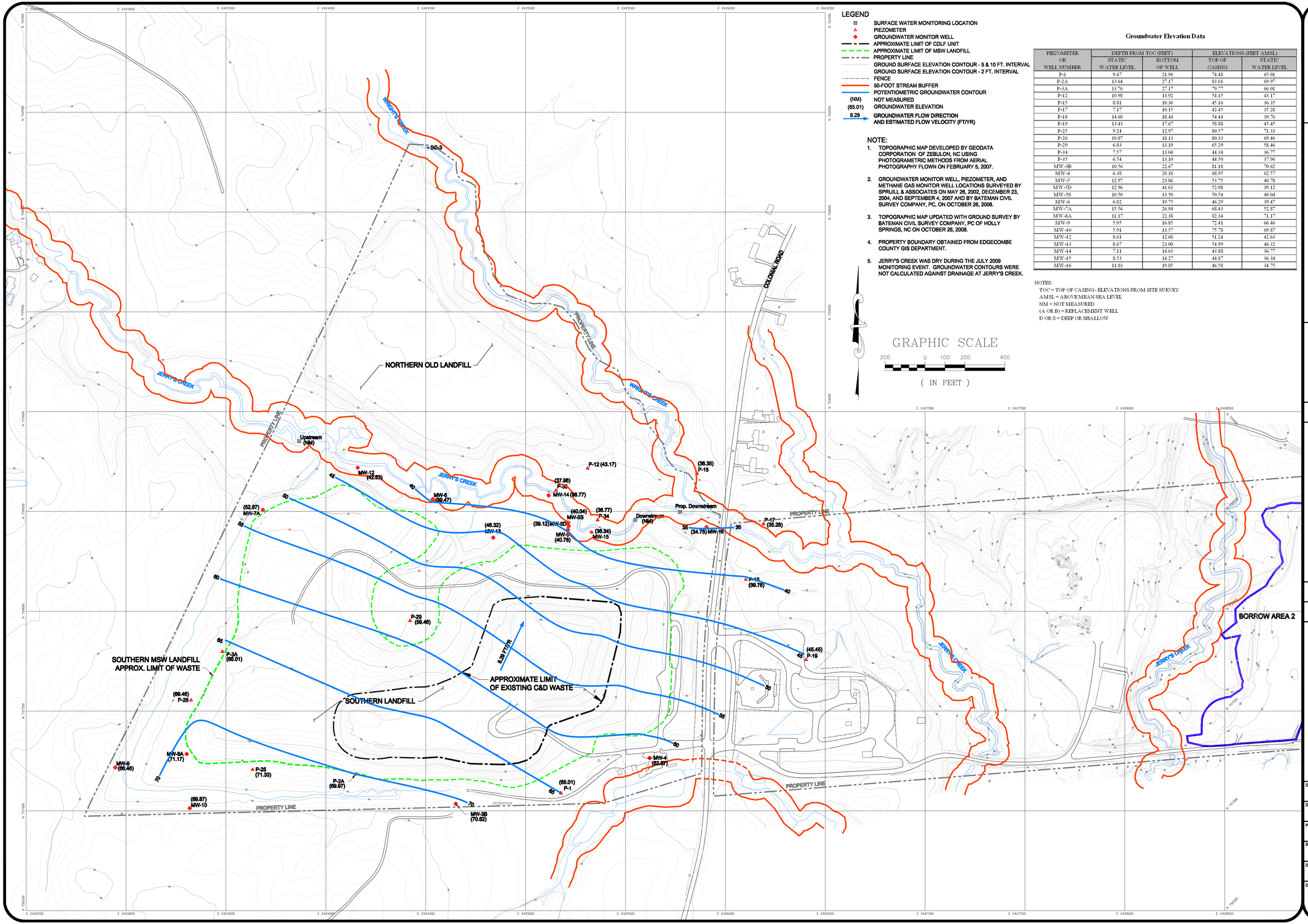
TOPO SOURCE: NCGS DRG
OLD SPARTA, NC (035077G5) DATED 1981
CONTOUR INTERVAL: 2 METERS

GRAPHIC SCALE
2000 0 1000 2000
(IN FEET)

A-1347

SCALE: 1" = 2,000'	S&ME WWW.SMEINC.COM	VICINITY MAP	FIGURE NO.
DATE: JULY 2009		JULY 15, 2009 ENV. COMPLIANCE MONITORING EDGECOMBE COUNTY LANDFILL TARBORO, NORTH CAROLINA	1
DRAWN BY:			
PROJECT NO: 1054-07-238B			

S:\PROJECTS\2007\07-238B Edgecombe - Environmental Monitoring 2009-10\CAD\A1347.dwg, A1347, 7/31/2009 3:15:22 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
- (65.01) GROUNDWATER ELEVATION
- 8.29 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 OCTOBER 26, 2008.
4. PROPERTY BOUNDARY OBTAINED FROM EDGECOMBE COUNTY GIS DEPARTMENT.
5. JERRY'S CREEK WAS DRY DURING THE JULY 2009 MONITORING EVENT. GROUNDWATER CONTOURS WERE NOT CALCULATED AGAINST DRAINAGE AT JERRY'S CREEK.

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)

Groundwater Elevation Data

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	9.47	21.96	74.48	65.01
P-2A	13.64	27.17	83.61	69.97
P-3A	13.76	27.17	79.77	66.01
P-12	10.98	13.92	54.15	43.17
P-15	8.81	10.36	45.16	36.35
P-17	7.17	10.15	42.45	35.28
P-18	14.68	18.44	54.44	39.76
P-19	13.43	17.67	58.88	45.45
P-25	9.24	12.97	80.57	71.33
P-26	10.87	18.13	80.33	69.46
P-29	6.83	13.19	65.29	58.46
P-34	7.57	13.04	44.34	36.77
P-35	6.54	13.10	44.50	37.96
MW-3B	10.56	22.67	81.18	70.62
MW-4	6.38	20.18	68.95	62.57
MW-5	12.97	23.86	53.75	40.78
MW-5D	12.96	41.63	52.08	39.12
MW-5S	10.50	13.50	50.54	40.04
MW-6	6.82	19.75	46.29	39.47
MW-7A	15.56	26.94	68.43	52.87
MW-8A	11.17	22.38	82.34	71.17
MW-9	5.95	16.85	72.41	66.46
MW-10	5.91	13.57	75.78	69.87
MW-12	8.61	12.68	51.24	42.63
MW-13	8.67	23.00	54.99	46.32
MW-14	7.11	14.63	43.88	36.77
MW-15	8.53	14.27	44.87	36.34
MW-16	11.83	19.85	46.58	34.75

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
JULY 15, 2009

ENVIRONMENTAL COMPLIANCE MONITORING
EDGECOMBE COUNTY LANDFILL
TARBORO, NORTH CAROLINA

DRAWN BY: BTR	CHECKED BY:
DESIGNED BY:	APPROVED BY:
PROJECT NUMBER: 1054-07-238B	
SCALE: 1" = 200'	DATE: JULY 2009
DRAWING NUMBER: D-1111	
DRAWING: 2	OF: 2

TABLES

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
July 15 - 16, 2009
S&ME Project No. 1054-07-238B

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date
33-01	3301-P-1		318	Depth To Water	9.47	ft						7/15/2009		
33-01	3301-P-1		411	Total Well Depth	20	ft						7/15/2009		
33-01	3301-P-1		328	TOC Elevation	74.48	ft AMSL						7/15/2009		
33-01	3301-P-1		319	Groundwater Elevation	65.01	ft AMSL						7/15/2009		
33-01	3301-P-2A		318	Depth To Water	13.64	ft						7/15/2009		
33-01	3301-P-2A		411	Total Well Depth	27.50	ft						7/15/2009		
33-01	3301-P-2A		328	TOC Elevation	83.61	ft AMSL						7/15/2009		
33-01	3301-P-2A		319	Groundwater Elevation	69.97	ft AMSL						7/15/2009		
33-01	3301-P-3A		318	Depth To Water	13.76	ft						7/15/2009		
33-01	3301-P-3A		411	Total Well Depth	27.50	ft						7/15/2009		
33-01	3301-P-3A		328	TOC Elevation	79.77	ft AMSL						7/15/2009		
33-01	3301-P-3A		319	Groundwater Elevation	66.01	ft AMSL						7/15/2009		
33-01	3301-P-12		318	Depth To Water	10.98	ft						7/15/2009		
33-01	3301-P-12		411	Total Well Depth	9.17	ft						7/15/2009		
33-01	3301-P-12		328	TOC Elevation	54.15	ft AMSL						7/15/2009		
33-01	3301-P-12		319	Groundwater Elevation	43.17	ft AMSL						7/15/2009		
33-01	3301-P-15		318	Depth To Water	8.81	ft						7/15/2009		
33-01	3301-P-15		411	Total Well Depth	7.00	ft						7/15/2009		
33-01	3301-P-15		328	TOC Elevation	45.16	ft AMSL						7/15/2009		
33-01	3301-P-15		319	Groundwater Elevation	36.35	ft AMSL						7/15/2009		
33-01	3301-P-17		318	Depth To Water	7.17	ft						7/15/2009		
33-01	3301-P-17		411	Total Well Depth	7.70	ft						7/15/2009		
33-01	3301-P-17		328	TOC Elevation	42.01	ft AMSL						7/15/2009		
33-01	3301-P-17		319	Groundwater Elevation	34.84	ft AMSL						7/15/2009		
33-01	3301-P-18		318	Depth To Water	14.68	ft						7/15/2009		
33-01	3301-P-18		411	Total Well Depth	15.00	ft						7/15/2009		
33-01	3301-P-18		328	TOC Elevation	54.99	ft AMSL						7/15/2009		
33-01	3301-P-18		319	Groundwater Elevation	40.31	ft AMSL						7/15/2009		
33-01	3301-P-19		318	Depth To Water	13.43	ft						7/15/2009		
33-01	3301-P-19		411	Total Well Depth	17.70	ft						7/15/2009		
33-01	3301-P-19		328	TOC Elevation	58.88	ft AMSL						7/15/2009		
33-01	3301-P-19		319	Groundwater Elevation	45.45	ft AMSL						7/15/2009		
33-01	3301-P-25		318	Depth To Water	9.24	ft						7/15/2009		
33-01	3301-P-25		411	Total Well Depth	10.00	ft						7/15/2009		
33-01	3301-P-25		328	TOC Elevation	80.57	ft AMSL						7/15/2009		
33-01	3301-P-25		319	Groundwater Elevation	71.33	ft AMSL						7/15/2009		
33-01	3301-P-26		318	Depth To Water	10.87	ft						7/15/2009		
33-01	3301-P-26		411	Total Well Depth	15.00	ft						7/15/2009		
33-01	3301-P-26		328	TOC Elevation	80.33	ft AMSL						7/15/2009		
33-01	3301-P-26		319	Groundwater Elevation	69.46	ft AMSL						7/15/2009		
33-01	3301-P-29		318	Depth To Water	6.83	ft						7/15/2009		
33-01	3301-P-29		411	Total Well Depth	10.00	ft						7/15/2009		
33-01	3301-P-29		328	TOC Elevation	63.69	ft AMSL						7/15/2009		
33-01	3301-P-29		319	Groundwater Elevation	56.86	ft AMSL						7/15/2009		
33-01	3301-P-34		318	Depth To Water	7.57	ft						7/15/2009		
33-01	3301-P-34		411	Total Well Depth	10.00	ft						7/15/2009		
33-01	3301-P-34		328	TOC Elevation	42.95	ft AMSL						7/15/2009		
33-01	3301-P-34		319	Groundwater Elevation	35.38	ft AMSL						7/15/2009		
33-01	3301-P-35		318	Depth To Water	6.54	ft						7/15/2009		
33-01	3301-P-35		411	Total Well Depth	10.00	ft						7/15/2009		
33-01	3301-P-35		328	TOC Elevation	43.04	ft AMSL						7/15/2009		
33-01	3301-P-35		319	Groundwater Elevation	36.50	ft AMSL						7/15/2009		
33-01	3301-MW-3B		318	Depth To Water	10.56	ft						7/15/2009		
33-01	3301-MW-3B		411	Total Well Depth	20.50	ft						7/15/2009		
33-01	3301-MW-3B		328	TOC Elevation	81.18	ft AMSL						7/15/2009		
33-01	3301-MW-3B		319	Groundwater Elevation	70.62	ft AMSL						7/15/2009		
33-01	3301-MW-3B		320	pH	4.06	standard units						7/15/2009		
33-01	3301-MW-3B		323	Specific Conductivity	0.226	mS/cm						7/15/2009		
33-01	3301-MW-3B		325	Temperature	17.59	°C						7/15/2009		
33-01	3301-MW-3B		330	Turbidity	4.50	NTUs						7/15/2009		
33-01	3301-MW-3B	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	SW316	316	Biochemical Oxygen Demand	2.0	mg/L	U	SM 5210B	2.0	NE	1	7/15/2009	7/17/2009	7/22/2009
33-01	3301-MW-3B	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	SW317	317	Chemical Oxygen Demand	3.1	mg/L	U	SM 5220D	3.1	NE	1	7/15/2009	7/27/2009	7/27/2009
33-01	3301-MW-3B	SW301	301	Chloride	27	mg/L	B	300.0	0.018	NE	1	7/15/2009	7/19/2009	7/20/2009
33-01	3301-MW-3B	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	7440-48-4	53	Cobalt Total	28.2	ug/L		6010C	0.580	10	1	7/15/2009	7/17/2009	7/21/2009
33-01	3301-MW-3B	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	7439-89-6	340	Iron Total	4200	ug/L		6010C	31.0	300	1	7/15/2009	7/17/2009	7/21/2009
33-01	3301-MW-3B	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	SW303	303	Nitrate as N	0.40	mg/L	J	353.2	0.0056	10	1	7/15/2009	7/20/2009	7/20/2009
33-01	3301-MW-3B	NA	419	Nitrate/Nitrite as N	0.41	mg/L		353.2	0.021	NE	1	7/15/2009	7/19/2009	7/19/2009
33-01	3301-MW-3B	SW304	304	Nitrite as N	0.0068	mg/L	JB	353.2	0.0056	1	1	7/15/2009	7/17/2009	7/17/2009
33-01	3301-MW-3B	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	14808-79-8	315	Sulfate as SO4	45	mg/L	J	300.0	0.078	250	1	7/15/2009	7/19/2009	7/20/2009
33-01	3301-MW-3B	18496-25-8	187	Sulfide	0.10	mg/L	U	SM18 4500-S I	0.10	1	1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-3B	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	SW337	337	Total Alkalinity	8.3	mg/L	U	310.2	8.3	NE	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-3B	E-10195	357	Total Organic Carbon	0.81	mg/L	J	SM18 5310B	0.32	NE	1	7/15/2009	7/27/2009	7/27/2009
33-01	3301-MW-3B	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/15/2009	7/21/2009	7/22/2009
33-01	3301-MW-3B	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/15/2009	7/21/2009	7/22/2009

33-01	3301-MW-4		318	Depth To Water	6.38	ft						7/15/2009		
33-01	3301-MW-4		411	Total Well Depth	19.86	ft						7/15/2009		
33-01	3301-MW-4		328	TOC Elevation	68.95	ft AMSL						7/15/2009		
33-01	3301-MW-4		319	Groundwater Elevation	62.57	ft AMSL						7/15/2009		
33-01	3301-MW-4		320	pH	5.77	standard units						7/15/2009		
33-01	3301-MW-4		323	Specific Conductivity	0.262	mS/cm						7/15/2009		
33-01	3301-MW-4		325	Temperature	22.70	°C						7/15/2009		
33-01	3301-MW-4		330	Turbidity	3.60	NTUs						7/15/2009		
33-01	3301-MW-4	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	64-19-7	416	Acetic Acid	0.071	mg/L	U	olatile Fatty Ac	0.071	NE	1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-4	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	SW316	316	Biochemical Oxygen Demand	2.0	mg/L	U	SM 5210B	2.0	NE	1	7/15/2009	7/16/2009	7/21/2009
33-01	3301-MW-4	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	107-92-6	418	Butyric Acid	0.16	mg/L	U	olatile Fatty Ac	0.16	NE	1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-4	124-38-9	413	Carbon dioxide	64.6	mg/L		RSK 175	0.780	NE	1	7/15/2009	7/24/2009	7/24/2009
33-01	3301-MW-4	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	SW317	317	Chemical Oxygen Demand	30	mg/L		SM 5220D	3.1	NE	1	7/15/2009	7/24/2009	7/27/2009
33-01	3301-MW-4	SW301	301	Chloride	6.6	mg/L	B	300.0	0.018	NE	1	7/15/2009	7/19/2009	7/20/2009
33-01	3301-MW-4	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	7440-48-4	53	Cobalt Total	0.580	ug/L	U	6010C	0.580	10	1	7/15/2009	7/16/2009	7/17/2009
33-01	3301-MW-4	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	74-84-0	331	Ethane	0.0004	mg/L	U	RSK 175	0.0004	NE	1	7/15/2009	7/24/2009	7/24/2009
33-01	3301-MW-4	87701-65-3	332	Ethene	0.0004	mg/L	U	RSK 175	0.0004	NE	1	7/15/2009	7/24/2009	7/24/2009
33-01	3301-MW-4	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4			Hexanoic Acid	0.32	mg/L	U	olatile Fatty Ac	0.32		1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-4			HIBA (2-Hydroxyisobutyric Acid	0.098	mg/L	U	olatile Fatty Ac	0.098		1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-4	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	7439-89-6	340	Iron Total	298	ug/L	J	6010C	31.0	300	1	7/15/2009	7/16/2009	7/17/2009
33-01	3301-MW-4			iso-Hexanoic Acid	0.41	mg/L	U	olatile Fatty Ac	0.41		1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-4			iso-Pentanoic Acid	0.13	mg/L	U	olatile Fatty Ac	0.13		1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-4	50-21-5	415	Lactic Acid	0.088	mg/L	U	olatile Fatty Ac	0.088	NE	1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-4	74-82-8	333	Methane	0.001	mg/L		RSK 175	0.0002	NE	1	7/15/2009	7/24/2009	7/24/2009
33-01	3301-MW-4	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	SW303	303	Nitrate as N	6.1	mg/L	J	353.2	0.0056	10	1	7/15/2009	7/20/2009	7/20/2009
33-01	3301-MW-4	NA	419	Nitrate/Nitrite as N	6.1	mg/L	D	353.2	0.21	NE	10	7/15/2009	7/19/2009	7/19/2009
33-01	3301-MW-4	SW304	304	Nitrite as N	0.0056	mg/L	U	353.2	0.0056	1	1	7/15/2009	7/16/2009	7/16/2009
33-01	3301-MW-4			Pentanoic Acid	0.18	mg/L	U	olatile Fatty Ac	0.18		1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-4	79-09-4	417	Propionic Acid	0.054	mg/L	U	olatile Fatty Ac	0.054	NE	1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-4	127-17-3	414	Pyruvic Acid	0.020	mg/L	U	olatile Fatty Ac	0.020	NE	1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-4	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	14808-79-8	315	Sulfate as SO4	24	mg/L	J	300.0	0.078	250	1	7/15/2009	7/19/2009	7/20/2009
33-01	3301-MW-4	18496-25-8	187	Sulfide	0.10	mg/L	U	SM18 4500-S D	0.10	1	1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-4	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	SW337	337	Total Alkalinity	53	mg/L		310.2	8.3	NE	1	7/15/2009	7/16/2009	7/16/2009
33-01	3301-MW-4	E-10195	357	Total Organic Carbon	7.5	mg/L		SM18 5310B	0.32	NE	1	7/15/2009	7/20/2009	7/20/2009
33-01	3301-MW-4	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-4			Hydrogen	0.830	nM		AM20GAX	0.600			7/15/2009		7/22/2009
33-01	3301-MW-5		318	Depth To Water	12.97	ft						7/15/2009		
33-01	3301-MW-5		411	Total Well Depth	24.81	ft						7/15/2009		
33-01	3301-MW-5		328	TOC Elevation	53.75	ft AMSL						7/15/2009		
33-01	3301-MW-5		319	Groundwater Elevation	40.78	ft AMSL						7/15/2009		
33-01	3301-MW-5		320	pH	6.16	standard units						7/16/2009		
33-01	3301-MW-5		323	Specific Conductivity	0.979	mS/cm						7/16/2009		
33-01	3301-MW-5		325	Temperature	18.80	°C						7/16/2009		
33-01	3301-MW-5		330	Turbidity	4.10	NTUs						7/16/2009		
33-01	3301-MW-5	630-20-6	190	1,1,1,2-Tetrachloroethane	4.0	ug/L	UD	8260B	4.0	5	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	71-55-6	200	1,1,1-Trichloroethane	2.7	ug/L	UD	8260B	2.7	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	79-34-5	191	1,1,2,2-Tetrachloroethane	3.3	ug/L	UD	8260B	3.3	3	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	79-00-5	202	1,1,2-Trichloroethane	3.7	ug/L	UD	8260B	3.7	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	75-34-3	75	1,1-Dichloroethane	9.5	ug/L	JD	8260B	3.3	5	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	75-35-4	77	1,1-Dichloroethene	2.4	ug/L	UD	8260B	2.4	5	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	96-18-4	206	1,2,3-Trichloropropane	5.5	ug/L	UD	8260B	5.5	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	96-12-8	67	1,2-Dibromo-3-chloropropane	4.8	ug/L	UD	8260B	4.8	13	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	106-93-4	68	1,2-Dibromoethane	4.2	ug/L	UD	8260B	4.2	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	95-50-1	69	1,2-Dichlorobenzene	2.7	ug/L	UD	8260B	2.7	5	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	107-06-2	76	1,2-Dichloroethane	6.5	ug/L	UD	8260B	6.5	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	78-87-5	82	1,2-Dichloropropane	2.0	ug/L	UD	8260B	2.0	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	106-46-7	71	1,4-Dichlorobenzene	3.8	ug/L	UD	8260B	3.8	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	78-93-3	141	2-Butanone	10	ug/L	UD	8260B	10	100	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	591-78-6	124	2-Hexanone	6.9	ug/L	UD	8260B	6.9	50	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	108-10-1	147	4-Methyl-2-pentanone	11	ug/L	UD	8260B	11	100	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	64-19-7	416	Acetic Acid	0.071	mg/L	U	olatile Fatty Ac	0.071	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-5	67-64-1	3	Acetone	15	ug/L	UD	8260B	15	100	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	107-13-1	8	Acrylonitrile	21	ug/L	UD	8260B	21	200	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	71-43-2	16	Benzene	4.2	ug/L	JD	8260B	2.0	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	SW316	316	Biochemical Oxygen Demand	2.0	mg/L	U	SM 5210B	2.0	NE	1	7/16/2009	7/17/2009	7/22/2009
33-01	3301-MW-5	74-97-5	28	Bromochloromethane	4.2	ug/L	UD	8260B	4.2	3	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	75-27-4	29	Bromodichloromethane	3.7	ug/L	UD	8260B	3.7	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	75-25-2	30	Bromoform	7.1	ug/L	UD	8260B	7.1	3	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	74-83-9	136	Bromomethane	4.9	ug/L	UD	8260B	4.9	10	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	107-92-6	418	Butyric Acid	0.16	mg/L	U	olatile Fatty Ac	0.16	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-5	124-38-9	413	Carbon dioxide	458	mg/L	D	RSK 175	7.80	NE	10	7/16/2009	7/24/2009	7/24/2009
33-01	3301-MW-5	75-15-0	35	Carbon disulfide	5.4	ug/L	UD	8260B	5.4	100	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	56-23-5	36	Carbon tetrachloride	3.8	ug/L	UD	8260B	3.8	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	SW317	317	Chemical Oxygen Demand	83	mg/L		SM 5220D	3.1	NE	1	7/16/2009	7/27/2009	7/27/2009
33-01	3301-MW-5	SW301	301	Chloride	12	mg/L	B	300.0	0.018	NE	1	7/16/2009	7/19/2009	7/20/2009
33-01	3301-MW-5	108-90-7	39	Chlorobenzene	12	ug/L	D	8260B	2.7	3	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	75-00-3	41	Chloroethane	3.0	ug/L	UD	8260B	3.0	10	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	67-66-3	44	Chloroform	2.0	ug/L	UD	8260B	2.0	5	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	74-87-3	137	Chloromethane	3.4	ug/L	UD	8260B	3.4	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	156-59-2	78	cis-1,2-Dichloroethene	600	ug/L	D	8260B	3.6	5	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	10061-01-5	86	cis-1,3-Dichloropropene	2.8	ug/L	UD	8260B	2.8	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	7440-48-4	53	Cobalt Total	182	ug/L		6010C	0.580	10	1	7/16/2009	7/17/2009	7/21/2009

33-01	3301-MW-5	124-48-1	66	Dibromochloromethane	3.2	ug/L	UD	8260B	3.2	3	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	74-95-3	139	Dibromomethane	3.7	ug/L	UD	8260B	3.7	10	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	74-84-0	331	Ethane	0.0004	mg/L	U	RSK 175	0.0004	NE	1	7/16/2009	7/24/2009	7/24/2009
33-01	3301-MW-5	87701-65-3	332	Ethene	0.002	mg/L		RSK 175	0.0004	NE	1	7/16/2009	7/24/2009	7/24/2009
33-01	3301-MW-5	100-41-4	110	Ethylbenzene	2.0	ug/L	UD	8260B	2.0	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5			Hexanoic Acid	0.32	mg/L	U	olatile Fatty Ac	0.32		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-5			HIBA (2-Hydroxyisobutyric Acid	0.098	mg/L	U	olatile Fatty Ac	0.098		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-5	74-88-4	142	Iodomethane	5.2	ug/L	UD	8260B	5.2	10	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	7439-89-6	340	Iron Total	125000	ug/L		6010C	31.0	300	1	7/16/2009	7/17/2009	7/21/2009
33-01	3301-MW-5			iso-Hexanoic Acid	0.41	mg/L	U	olatile Fatty Ac	0.41		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-5			iso-Pentanoic Acid	0.13	mg/L	U	olatile Fatty Ac	0.13		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-5	50-21-5	415	Lactic Acid	0.088	mg/L	U	olatile Fatty Ac	0.088	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-5	74-82-8	333	Methane	0.466	mg/L		RSK 175	0.0002	NE	1	7/16/2009	7/24/2009	7/24/2009
33-01	3301-MW-5	75-09-2	140	Methylene chloride	5.3	ug/L	UD	8260B	5.3	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	SW303	303	Nitrate as N	0.0056	mg/L	U	353.2	0.0056	10	1	7/16/2009	7/20/2009	7/20/2009
33-01	3301-MW-5	NA	419	Nitrate/Nitrite as N	0.021	mg/L	U	353.2	0.021	NE	1	7/16/2009	7/19/2009	7/19/2009
33-01	3301-MW-5	SW304	304	Nitrite as N	0.0065	mg/L	JB	353.2	0.0056	1	1	7/16/2009	7/17/2009	7/17/2009
33-01	3301-MW-5			Pentanoic Acid	0.18	mg/L	U	olatile Fatty Ac	0.18		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-5	79-09-4	417	Propionic Acid	0.054	mg/L	U	olatile Fatty Ac	0.054	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-5	127-17-3	414	Pyruvic Acid	0.020	mg/L	U	olatile Fatty Ac	0.020	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-5	100-42-5	186	Styrene	2.6	ug/L	UD	8260B	2.6	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	14808-79-8	315	Sulfate as SO4	41	mg/L	J	300.0	0.078	250	1	7/16/2009	7/19/2009	7/20/2009
33-01	3301-MW-5	18496-25-8	187	Sulfide	0.10	mg/L	U	SM18 4500-S I	0.10	1	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-5	127-18-4	192	Tetrachloroethene	3.6	ug/L	UD	8260B	3.6	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	108-88-3	196	Toluene	2.7	ug/L	UD	8260B	2.7	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	SW337	337	Total Alkalinity	350	mg/L	D	310.2	17	NE	2	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-5	E-10195	357	Total Organic Carbon	7.0	mg/L		SM18 5310B	0.32	NE	1	7/16/2009	7/27/2009	7/27/2009
33-01	3301-MW-5	156-60-5	79	trans-1,2-Dichloroethene	3.4	ug/L	UD	8260B	3.4	5	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	10061-02-6	87	trans-1,3-Dichloropropene	3.8	ug/L	UD	8260B	3.8	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	110-57-6	73	trans-1,4-Dichloro-2-butene	5.4	ug/L	UD	8260B	5.4	100	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	79-01-6	201	Trichloroethene	3.8	ug/L	UD	8260B	3.8	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	75-69-4	203	Trichlorofluoromethane	2.8	ug/L	UD	8260B	2.8	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	108-05-4	210	Vinyl acetate	9.8	ug/L	UD	8260B	9.8	50	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	75-01-4	211	Vinyl chloride	20	ug/L	D	8260B	3.0	1	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5	1330-20-7	346	Xylenes (Total)	4.0	ug/L	UD	8260B	4.0	5	10	7/16/2009	7/21/2009	7/22/2009
33-01	3301-MW-5			Hydrogen	1.200	nM		AM20GAX	0.600			7/16/2009		7/22/2009
33-01	3301-MW-5D		318	Depth To Water	12.96	ft						7/15/2009		
33-01	3301-MW-5D		411	Total Well Depth	40.00	ft						7/15/2009		
33-01	3301-MW-5D		328	TOC Elevation	52.08	ft AMSL						7/15/2009		
33-01	3301-MW-5D		319	Groundwater Elevation	39.12	ft AMSL						7/15/2009		
33-01	3301-MW-5S		318	Depth To Water	10.50	ft						7/15/2009		
33-01	3301-MW-5S		411	Total Well Depth	13.40	ft						7/15/2009		
33-01	3301-MW-5S		328	TOC Elevation	50.54	ft AMSL						7/15/2009		
33-01	3301-MW-5S		319	Groundwater Elevation	40.04	ft AMSL						7/15/2009		
33-01	3301-MW-6		318	Depth To Water	6.82	ft.						7/15/2009		
33-01	3301-MW-6		411	Total Well Depth	17.65	ft.						7/15/2009		
33-01	3301-MW-6		328	TOC Elevation	46.15	ft AMSL						7/15/2009		
33-01	3301-MW-6		319	Groundwater Elevation	39.33	ft AMSL						7/15/2009		
33-01	3301-MW-6		320	pH	6.05	standard units						7/15/2009		
33-01	3301-MW-6		323	Specific Conductivity	0.517	mS/cm						7/15/2009		
33-01	3301-MW-6		325	Temperature	19.18	°C						7/15/2009		
33-01	3301-MW-6		330	Turbidity	1.90	NTUs						7/15/2009		
33-01	3301-MW-6	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	SW316	316	Biochemical Oxygen Demand	2.0	mg/L	U	SM 5210B	2.0	NE	1	7/15/2009	7/17/2009	7/22/2009
33-01	3301-MW-6	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	SW317	317	Chemical Oxygen Demand	23	mg/L		SM 5220D	3.1	NE	1	7/15/2009	7/27/2009	7/27/2009
33-01	3301-MW-6	SW301	301	Chloride	18	mg/L	B	300.0	0.018	NE	1	7/15/2009	7/19/2009	7/20/2009
33-01	3301-MW-6	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	7440-48-4	53	Cobalt Total	1.87	ug/L	J	6010C	0.580	10	1	7/15/2009	7/17/2009	7/21/2009
33-01	3301-MW-6	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	7439-89-6	340	Iron Total	9800	ug/L		6010C	31.0	300	1	7/15/2009	7/17/2009	7/21/2009
33-01	3301-MW-6	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	SW303	303	Nitrate as N	0.0056	mg/L	U	353.2	0.0056	10	1	7/15/2009	7/20/2009	7/20/2009
33-01	3301-MW-6	NA	419	Nitrate/Nitrite as N	0.021	mg/L	U	353.2	0.021	NE	1	7/15/2009	7/19/2009	7/19/2009
33-01	3301-MW-6	SW304	304	Nitrite as N	0.0056	mg/L	U	353.2	0.0056	1	1	7/15/2009	7/17/2009	7/17/2009
33-01	3301-MW-6	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	14808-79-8	315	Sulfate as SO4	62	mg/L	J	300.0	0.078	250	1	7/15/2009	7/19/2009	7/20/2009
33-01	3301-MW-6	18496-25-8	187	Sulfide	0.10	mg/L	U	SM18 4500-S I	0.10	1	1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-6	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	SW337	337	Total Alkalinity	140	mg/L		310.2	8.3	NE	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-6	E-10195	357	Total Organic Carbon	7.8	mg/L		SM18 5310B	0.32	NE	1	7/15/2009	7/27/2009	7/27/2009
33-01	3301-MW-6	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-6	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A		318	Depth To Water	15.56	ft						7/15/2009		
33-01	3301-MW-7A		411	Total Well Depth	27.35	ft						7/15/2009		
33-01	3301-MW-7A		328	TOC Elevation	68.43	ft AMSL						7/15/2009		
33-01	3301-MW-7A		319	Groundwater Elevation	52.87	ft AMSL						7/15/2009		
33-01	3301-MW-7A		320	pH	6.10	standard units						7/16/2009		
33-01	3301-MW-7A		323	Specific Conductivity	0.747	mS/cm						7/16/2009		
33-01	3301-MW-7A		325	Temperature	19.80	°C						7/16/2009		
33-01	3301-MW-7A		330	Turbidity	15.70	NTUs						7/16/2009		
33-01	3301-MW-7A	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/16/2009	7/22/2009	7/22/2009

33-01	3301-MW-7A	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	106-46-7	71	1,4-Dichlorobenzene	0.47	ug/L	J	8260B	0.38	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	71-43-2	16	Benzene	1.1	ug/L		8260B	0.20	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	SW316	316	Biochemical Oxygen Demand	2.0	mg/L	U	SM 5210B	2.0	NE	1	7/16/2009	7/17/2009	7/22/2009
33-01	3301-MW-7A	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	SW317	317	Chemical Oxygen Demand	35	mg/L		SM 5220D	3.1	NE	1	7/16/2009	7/27/2009	7/27/2009
33-01	3301-MW-7A	SW301	301	Chloride	17	mg/L	B	300.0	0.018	NE	1	7/16/2009	7/19/2009	7/20/2009
33-01	3301-MW-7A	108-90-7	39	Chlorobenzene	1.7	ug/L	J	8260B	0.27	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	7440-48-4	53	Cobalt Total	1.10	ug/L	J	6010C	0.580	10	1	7/16/2009	7/17/2009	7/21/2009
33-01	3301-MW-7A	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	7439-89-6	340	Iron Total	117000	ug/L		6010C	31.0	300	1	7/16/2009	7/17/2009	7/21/2009
33-01	3301-MW-7A	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	SW303	303	Nitrate as N	0.039	mg/L	J	353.2	0.0056	10	1	7/16/2009	7/20/2009	7/20/2009
33-01	3301-MW-7A	NA	419	Nitrate/Nitrite as N	0.039	mg/L	J	353.2	0.021	NE	1	7/16/2009	7/19/2009	7/19/2009
33-01	3301-MW-7A	SW304	304	Nitrite as N	0.0056	mg/L	U	353.2	0.0056	1	1	7/16/2009	7/17/2009	7/17/2009
33-01	3301-MW-7A	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	14808-79-8	315	Sulfate as SO4	3.0	mg/L	J	300.0	0.078	250	1	7/16/2009	7/19/2009	7/20/2009
33-01	3301-MW-7A	18496-25-8	187	Sulfide	0.10	mg/L	U	SM18 4500-S I	0.10	1	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-7A	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	SW337	337	Total Alkalinity	190	mg/L	D	310.2	17	NE	2	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-7A	E-10195	357	Total Organic Carbon	4.4	mg/L		SM18 5310B	0.32	NE	1	7/16/2009	7/27/2009	7/27/2009
33-01	3301-MW-7A	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-7A	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-8A		318	Depth To Water	11.17	ft						7/15/2009		
33-01	3301-MW-8A		411	Total Well Depth	22.60	ft						7/15/2009		
33-01	3301-MW-8A		328	TOC Elevation	82.34	ft AMSL						7/15/2009		
33-01	3301-MW-8A		319	Groundwater Elevation	71.17	ft AMSL						7/15/2009		
33-01	3301-MW-9		318	Depth To Water	5.95	ft						7/15/2009		
33-01	3301-MW-9		411	Total Well Depth	15.00	ft						7/15/2009		
33-01	3301-MW-9		328	TOC Elevation	72.41	ft AMSL						7/15/2009		
33-01	3301-MW-9		319	Groundwater Elevation	66.46	ft AMSL						7/15/2009		
33-01	3301-MW-9		320	pH	6.91	standard units						7/15/2009		
33-01	3301-MW-9		323	Specific Conductivity	0.210	mS/cm						7/15/2009		
33-01	3301-MW-9		325	Temperature	21.40	°C						7/15/2009		
33-01	3301-MW-9		330	Turbidity	30.30	NTUs						7/15/2009		
33-01	3301-MW-9	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	SW316	316	Biochemical Oxygen Demand	2.0	mg/L	U	SM 5210B	2.0	NE	1	7/15/2009	7/16/2009	7/21/2009
33-01	3301-MW-9	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	SW317	317	Chemical Oxygen Demand	3.1	mg/L	U	SM 5220D	3.1	NE	1	7/15/2009	7/24/2009	7/27/2009
33-01	3301-MW-9	SW301	301	Chloride	4.1	mg/L	JB	300.0	0.018	NE	1	7/15/2009	7/19/2009	7/20/2009
33-01	3301-MW-9	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	7440-48-4	53	Cobalt Total	0.580	ug/L	U	6010C	0.580	10	1	7/15/2009	7/16/2009	7/17/2009
33-01	3301-MW-9	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	7439-89-6	340	Iron Total	6090	ug/L		6010C	31.0	300	1	7/15/2009	7/16/2009	7/17/2009
33-01	3301-MW-9	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	SW303	303	Nitrate as N	0.027	mg/L	J	353.2	0.0056	10	1	7/15/2009	7/20/2009	7/20/2009
33-01	3301-MW-9	NA	419	Nitrate/Nitrite as N	0.027	mg/L	J	353.2	0.021	NE	1	7/15/2009	7/19/2009	7/19/2009
33-01	3301-MW-9	SW304	304	Nitrite as N	0.0056	mg/L	U	353.2	0.0056	1	1	7/15/2009	7/16/2009	7/16/2009
33-01	3301-MW-9	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	14808-79-8	315	Sulfate as SO4	3.1	mg/L	J	300.0	0.078	250	1	7/15/2009	7/19/2009	7/20/2009
33-01	3301-MW-9	18496-25-8	187	Sulfide	0.10	mg/L	U	SM18 4500-S I	0.10	1	1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-9	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	SW337	337	Total Alkalinity	100	mg/L		310.2	8.3	NE	1	7/15/2009	7/16/2009	7/16/2009
33-01	3301-MW-9	E-10195	357	Total Organic Carbon	0.32	mg/L	U	SM18 5310B	0.32	NE	1	7/15/2009	7/20/2009	7/20/2009
33-01	3301-MW-9	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-9	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/15/2009	7/22/2009	7/22/2009
33-01	3301-MW-10		318	Depth To Water	5.91	ft						7/15/2009		
33-01	3301-MW-10		411	Total Well Depth	12.00	ft						7/15/2009		
33-01	3301-MW-10		328	TOC Elevation	75.78	ft AMSL						7/15/2009		
33-01	3301-MW-10		319	Groundwater Elevation	69.87	ft AMSL						7/15/2009		
33-01	3301-MW-12		318	Depth To Water	8.61	ft						7/15/2009		
33-01	3301-MW-12		411	Total Well Depth	10.00	ft						7/15/2009		
33-01	3301-MW-12		328	TOC Elevation	51.24	ft AMSL						7/15/2009		

33-01	3301-MW-12		319	Groundwater Elevation	42.63	ft AMSL						7/15/2009		
33-01	3301-MW-12		320	pH	4.21	standard units						7/16/2009		
33-01	3301-MW-12		323	Specific Conductivity	0.755	mS/cm						7/16/2009		
33-01	3301-MW-12		325	Temperature	19.95	°C						7/16/2009		
33-01	3301-MW-12		330	Turbidity	4.30	NTUs						7/16/2009		
33-01	3301-MW-12	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	75-34-3	75	1,1-Dichloroethane	2.0	ug/L	J	8260B	0.33	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	106-46-7	71	1,4-Dichlorobenzene	5.5	ug/L		8260B	0.38	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	64-19-7	416	Acetic Acid	0.071	mg/L	U	olatile Fatty Ac	0.071	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-12	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	71-43-2	16	Benzene	3.2	ug/L		8260B	0.20	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	SW316	316	Biochemical Oxygen Demand	2.0	mg/L	U	SM 5210B	2.0	NE	1	7/16/2009	7/17/2009	7/22/2009
33-01	3301-MW-12	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	107-92-6	418	Butyric Acid	0.16	mg/L	U	olatile Fatty Ac	0.16	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-12	124-38-9	413	Carbon dioxide	463	mg/L	D	RSK 175	7.80	NE	10	7/16/2009	7/24/2009	7/24/2009
33-01	3301-MW-12	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	SW317	317	Chemical Oxygen Demand	44	mg/L		SM 5220D	3.1	NE	1	7/16/2009	7/27/2009	7/27/2009
33-01	3301-MW-12	SW301	301	Chloride	200	mg/L	BD	300.0	0.072	NE	4	7/16/2009	7/19/2009	7/20/2009
33-01	3301-MW-12	108-90-7	39	Chlorobenzene	3.2	ug/L		8260B	0.27	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	156-59-2	78	cis-1,2-Dichloroethene	1.3	ug/L	J	8260B	0.36	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	7440-48-4	53	Cobalt Total	13.6	ug/L		6010C	0.580	10	1	7/16/2009	7/17/2009	7/21/2009
33-01	3301-MW-12	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	74-84-0	331	Ethane	0.0004	mg/L	U	RSK 175	0.0004	NE	1	7/16/2009	7/24/2009	7/24/2009
33-01	3301-MW-12	87701-65-3	332	Ethene	0.0004	mg/L	U	RSK 175	0.0004	NE	1	7/16/2009	7/24/2009	7/24/2009
33-01	3301-MW-12	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12			Hexanoic Acid	0.32	mg/L	U	olatile Fatty Ac	0.32		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-12			HIBA (2-Hydroxyisobutyric Acid	0.098	mg/L	U	olatile Fatty Ac	0.098		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-12	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	7439-89-6	340	Iron Total	9290	ug/L		6010C	31.0	300	1	7/16/2009	7/17/2009	7/21/2009
33-01	3301-MW-12			iso-Hexanoic Acid	0.41	mg/L	U	olatile Fatty Ac	0.41		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-12			iso-Pentanoic Acid	0.13	mg/L	U	olatile Fatty Ac	0.13		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-12	50-21-5	415	Lactic Acid	0.088	mg/L	U	olatile Fatty Ac	0.088	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-12	74-82-8	333	Methane	0.051	mg/L		RSK 175	0.0002	NE	1	7/16/2009	7/24/2009	7/24/2009
33-01	3301-MW-12	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	SW303	303	Nitrate as N	0.22	mg/L	J	353.2	0.0056	10	1	7/16/2009	7/20/2009	7/20/2009
33-01	3301-MW-12	NA	419	Nitrate/Nitrite as N	0.022	mg/L	J	353.2	0.021	NE	1	7/16/2009	7/19/2009	7/19/2009
33-01	3301-MW-12	SW304	304	Nitrite as N	0.0056	mg/L	U	353.2	0.0056	1	1	7/16/2009	7/17/2009	7/17/2009
33-01	3301-MW-12			Pentanoic Acid	0.18	mg/L	U	olatile Fatty Ac	0.18		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-12	79-09-4	417	Propionic Acid	0.054	mg/L	U	olatile Fatty Ac	0.054	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-12	127-17-3	414	Pyruvic Acid	0.020	mg/L	U	olatile Fatty Ac	0.020	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-12	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	14808-79-8	315	Sulfate as SO4	48	mg/L	J	300.0	0.078	250	1	7/16/2009	7/19/2009	7/20/2009
33-01	3301-MW-12	18496-25-8	187	Sulfide	0.10	mg/L	U	SM18 4500-S I	0.10	1	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-12	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	SW337	337	Total Alkalinity	8.3	mg/L	U	310.2	8.3	NE	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-12	E-10195	357	Total Organic Carbon	12	mg/L		SM18 5310B	0.32	NE	1	7/16/2009	7/27/2009	7/27/2009
33-01	3301-MW-12	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-12			Hydrogen	0.870	nM		AM20GAX	0.600			7/16/2009		7/22/2009
33-01	3301-Duplicate	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	75-34-3	75	1,1-Dichloroethane	2.0	ug/L	J	8260B	0.33	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	106-46-7	71	1,4-Dichlorobenzene	5.5	ug/L		8260B	0.38	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	71-43-2	16	Benzene	3.0	ug/L		8260B	0.20	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	108-90-7	39	Chlorobenzene	3.3	ug/L		8260B	0.27	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	75-00-3	41	Chloroethane	1.9	ug/L	J	8260B	0.30	10	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	156-59-2	78	cis-1,2-Dichloroethene	1.3	ug/L	J	8260B	0.36	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	7440-48-4	53	Cobalt Total	13.3	ug/L		6010C	0.580	10	1	7/16/2009	7/17/2009	7/21/2009
33-01	3301-Duplicate	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-Duplicate	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-13		318	Depth To Water	8.67	ft						7/15/2009		

33-01	3301-MW-13		411	Total Well Depth	20.00	ft						7/15/2009		
33-01	3301-MW-13		328	TOC Elevation	54.99	ft AMSL						7/15/2009		
33-01	3301-MW-13		319	Groundwater Elevation	46.32	ft AMSL						7/15/2009		
33-01	3301-MW-13		320	pH	5.73	standard units						7/16/2009		
33-01	3301-MW-13		323	Specific Conductivity	0.864	mS/cm						7/16/2009		
33-01	3301-MW-13		325	Temperature	21.11	°C						7/16/2009		
33-01	3301-MW-13		330	Turbidity	26.10	NTUs						7/16/2009		
33-01	3301-MW-13	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	75-34-3	75	1,1-Dichloroethane	0.95	ug/L	J	8260B	0.33	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	106-46-7	71	1,4-Dichlorobenzene	1.7	ug/L		8260B	0.38	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	71-43-2	16	Benzene	1.9	ug/L		8260B	0.20	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	SW316	316	Biochemical Oxygen Demand	2.0	mg/L	U	SM 5210B	2.0	NE	1	7/16/2009	7/17/2009	7/22/2009
33-01	3301-MW-13	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	SW317	317	Chemical Oxygen Demand	76	mg/L		SM 5220D	3.1	NE	1	7/16/2009	7/27/2009	7/27/2009
33-01	3301-MW-13	SW301	301	Chloride	120	mg/L	BD	300.0	0.036	NE	2	7/16/2009	7/19/2009	7/20/2009
33-01	3301-MW-13	108-90-7	39	Chlorobenzene	9.3	ug/L		8260B	0.27	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	156-59-2	78	cis-1,2-Dichloroethene	20	ug/L		8260B	0.36	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	7440-48-4	53	Cobalt Total	1550	ug/L		6010C	0.580	10	1	7/16/2009	7/17/2009	7/21/2009
33-01	3301-MW-13	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	7439-89-6	340	Iron Total	35200	ug/L		6010C	31.0	300	1	7/16/2009	7/17/2009	7/21/2009
33-01	3301-MW-13	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	SW303	303	Nitrate as N	0.0056	mg/L	U	353.2	0.0056	10	1	7/16/2009	7/20/2009	7/20/2009
33-01	3301-MW-13	NA	419	Nitrate/Nitrite as N	0.021	mg/L	U	353.2	0.021	NE	1	7/16/2009	7/19/2009	7/19/2009
33-01	3301-MW-13	SW304	304	Nitrite as N	0.0056	mg/L	U	353.2	0.0056	1	1	7/16/2009	7/17/2009	7/17/2009
33-01	3301-MW-13	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	14808-79-8	315	Sulfate as SO4	38	mg/L	J	300.0	0.078	250	1	7/16/2009	7/19/2009	7/20/2009
33-01	3301-MW-13	18496-25-8	187	Sulfide	0.10	mg/L	U	SM18 4500-S I	0.10	1	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-13	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	SW337	337	Total Alkalinity	150	mg/L	D	310.2	17	NE	2	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-13	E-10195	357	Total Organic Carbon	10	mg/L		SM18 5310B	0.32	NE	1	7/16/2009	7/27/2009	7/27/2009
33-01	3301-MW-13	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	79-01-6	201	Trichloroethene	2.2	ug/L		8260B	0.38	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	75-01-4	211	Vinyl chloride	2.2	ug/L		8260B	0.30	1	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-13	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/16/2009	7/22/2009	7/22/2009
33-01	3301-MW-14		318	Depth To Water	7.11	ft						7/15/2009		
33-01	3301-MW-14		411	Total Well Depth	12.00	ft						7/15/2009		
33-01	3301-MW-14		328	TOC Elevation	43.88	ft AMSL						7/15/2009		
33-01	3301-MW-14		319	Groundwater Elevation	36.77	ft AMSL						7/15/2009		
33-01	3301-MW-14		320	pH	6.86	standard units						7/15/2009		
33-01	3301-MW-14		323	Specific Conductivity	0.419	mS/cm						7/15/2009		
33-01	3301-MW-14		325	Temperature	19.92	°C						7/15/2009		
33-01	3301-MW-14		330	Turbidity	9.90	NTUs						7/15/2009		
33-01	3301-MW-14	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	SW316	316	Biochemical Oxygen Demand	2.0	mg/L	U	SM 5210B	2.0	NE	1	7/15/2009	7/17/2009	7/22/2009
33-01	3301-MW-14	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	SW317	317	Chemical Oxygen Demand	16	mg/L		SM 5220D	3.1	NE	1	7/15/2009	7/27/2009	7/27/2009
33-01	3301-MW-14	SW301	301	Chloride	8.6	mg/L	B	300.0	0.018	NE	1	7/15/2009	7/19/2009	7/20/2009
33-01	3301-MW-14	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	7440-48-4	53	Cobalt Total	0.580	ug/L	U	6010C	0.580	10	1	7/15/2009	7/17/2009	7/21/2009
33-01	3301-MW-14	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	7439-89-6	340	Iron Total	4720	ug/L		6010C	31.0	300	1	7/15/2009	7/17/2009	7/21/2009
33-01	3301-MW-14	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	SW303	303	Nitrate as N	0.048	mg/L	J	353.2	0.0056	10	1	7/15/2009	7/20/2009	7/20/2009
33-01	3301-MW-14	NA	419	Nitrate/Nitrite as N	0.058	mg/L	J	353.2	0.021	NE	1	7/15/2009	7/19/2009	7/19/2009
33-01	3301-MW-14	SW304	304	Nitrite as N	0.0097	mg/L	JB	353.2	0.0056	1	1	7/15/2009	7/17/2009	7/17/2009
33-01	3301-MW-14	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	14808-79-8	315	Sulfate as SO4	15	mg/L	J	300.0	0.078	250	1	7/15/2009	7/19/2009	7/20/2009
33-01	3301-MW-14	18496-25-8	187	Sulfide	0.10	mg/L	U	SM18 4500-S I	0.10	1	1	7/15/2009	7/21/2009	7/21/2009
33-01	3301-MW-14	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	SW337	337	Total Alkalinity	190	mg/L		310.2	8.3	NE	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	E-10195	357	Total Organic Carbon	4.6	mg/L		SM18 5310B	0.32	NE	1	7/15/2009	7/27/2009	7/27/2009
33-01	3301-MW-14	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/15/2009	7/23/2009	7/23/2009

33-01	3301-MW-14	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-14	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/15/2009	7/23/2009	7/23/2009
33-01	3301-MW-15		318	Depth To Water	8.53	ft						7/15/2009		
33-01	3301-MW-15		411	Total Well Depth	11.60	ft						7/15/2009		
33-01	3301-MW-15		328	TOC Elevation	44.87	ft AMSL						7/15/2009		
33-01	3301-MW-15		319	Groundwater Elevation	36.34	ft AMSL						7/15/2009		
33-01	3301-MW-15		320	pH	6.36	standard units						7/16/2009		
33-01	3301-MW-15		323	Specific Conductivity	0.765	mS/cm						7/16/2009		
33-01	3301-MW-15		325	Temperature	20.25	°C						7/16/2009		
33-01	3301-MW-15		330	Turbidity	8.60	NTUs						7/16/2009		
33-01	3301-MW-15	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	75-34-3	75	1,1-Dichloroethane	1.4	ug/L	J	8260B	0.33	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	78-87-5	82	1,2-Dichloropropane	4.6	ug/L		8260B	0.20	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	SW316	316	Biochemical Oxygen Demand	2.0	mg/L	U	SM 5210B	2.0	NE	1	7/16/2009	7/17/2009	7/22/2009
33-01	3301-MW-15	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	SW317	317	Chemical Oxygen Demand	32	mg/L		SM 5220D	3.1	NE	1	7/16/2009	7/27/2009	7/27/2009
33-01	3301-MW-15	SW301	301	Chloride	13	mg/L	B	300.0	0.018	NE	1	7/16/2009	7/19/2009	7/20/2009
33-01	3301-MW-15	108-90-7	39	Chlorobenzene	0.98	ug/L	J	8260B	0.27	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	156-59-2	78	cis-1,2-Dichloroethene	26	ug/L		8260B	0.36	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	7440-48-4	53	Cobalt Total	9.54	ug/L	J	6010C	0.580	10	1	7/16/2009	7/17/2009	7/21/2009
33-01	3301-MW-15	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	7439-89-6	340	Iron Total	20800	ug/L		6010C	31.0	300	1	7/16/2009	7/17/2009	7/21/2009
33-01	3301-MW-15	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	SW303	303	Nitrate as N	0.031	mg/L	J	353.2	0.0056	10	1	7/16/2009	7/20/2009	7/20/2009
33-01	3301-MW-15	NA	419	Nitrate/Nitrite as N	0.031	mg/L	J	353.2	0.021	NE	1	7/16/2009	7/19/2009	7/19/2009
33-01	3301-MW-15	SW304	304	Nitrite as N	0.0056	mg/L	U	353.2	0.0056	1	1	7/16/2009	7/17/2009	7/17/2009
33-01	3301-MW-15	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	14808-79-8	315	Sulfate as SO4	13	mg/L	J	300.0	0.078	250	1	7/16/2009	7/19/2009	7/20/2009
33-01	3301-MW-15	18496-25-8	187	Sulfide	0.10	mg/L	U	SM18 4500-S I	0.10	1	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-15	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	SW337	337	Total Alkalinity	300	mg/L	D	310.2	17	NE	2	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	E-10195	357	Total Organic Carbon	5.2	mg/L		SM18 5310B	0.32	NE	1	7/16/2009	7/27/2009	7/27/2009
33-01	3301-MW-15	156-60-5	79	trans-1,2-Dichloroethene	1.2	ug/L	J	8260B	0.34	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	75-01-4	211	Vinyl chloride	1.9	ug/L		8260B	0.30	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-15	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16		318	Depth To Water	11.83	ft						7/15/2009		
33-01	3301-MW-16		411	Total Well Depth	17.00	ft						7/15/2009		
33-01	3301-MW-16		328	TOC Elevation	46.58	ft AMSL						7/15/2009		
33-01	3301-MW-16		319	Groundwater Elevation	34.75	ft AMSL						7/15/2009		
33-01	3301-MW-16		320	pH	5.98	standard units						7/16/2009		
33-01	3301-MW-16		323	Specific Conductivity	0.543	mS/cm						7/16/2009		
33-01	3301-MW-16		325	Temperature	19.28	°C						7/16/2009		
33-01	3301-MW-16		330	Turbidity	4.70	NTUs						7/16/2009		
33-01	3301-MW-16	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	64-19-7	416	Acetic Acid	0.071	mg/L	U	olatile Fatty Ac	0.071	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-16	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	SW316	316	Biochemical Oxygen Demand	2.0	mg/L	U	SM 5210B	2.0	NE	1	7/16/2009	7/17/2009	7/22/2009
33-01	3301-MW-16	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	107-92-6	418	Butyric Acid	0.16	mg/L	U	olatile Fatty Ac	0.16	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-16	124-38-9	413	Carbon dioxide	308	mg/L	D	RSK 175	7.80	NE	10	7/16/2009	7/24/2009	7/24/2009
33-01	3301-MW-16	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	SW317	317	Chemical Oxygen Demand	51	mg/L		SM 5220D	3.1	NE	1	7/16/2009	7/27/2009	7/27/2009
33-01	3301-MW-16	SW301	301	Chloride	25	mg/L	B	300.0	0.018	NE	1	7/16/2009	7/19/2009	7/20/2009
33-01	3301-MW-16	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	7440-48-4	53	Cobalt Total	1.42	ug/L	J	6010C	0.580	10	1	7/16/2009	7/17/2009	7/21/2009
33-01	3301-MW-16	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	74-84-0	331	Ethane	0.0004	mg/L	U	RSK 175	0.0004	NE	1	7/16/2009	7/24/2009	7/24/2009
33-01	3301-MW-16	87701-65-3	332	Ethene	0.0004	mg/L	U	RSK 175	0.0004	NE	1	7/16/2009	7/24/2009	7/24/2009
33-01	3301-MW-16	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16			Hexanoic Acid	0.32	mg/L	U	olatile Fatty Ac	0.32		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-16			HIBA (2-Hydroxyisobutyric Acid	0.098	mg/L	U	olatile Fatty Ac	0.098		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-16	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	7439-89-6	340	Iron Total	48600	ug/L		6010C	31.0	300	1	7/16/2009	7/17/2009	7/21/2009
33-01	3301-MW-16			iso-Hexanoic Acid	0.41	mg/L	U	olatile Fatty Ac	0.41		1	7/16/2009	7/21/2009	7/21/2009

33-01	3301-MW-16			iso-Pentanoic Acid	0.13	mg/L	U	olatile Fatty Ac	0.13		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-16	50-21-5	415	Lactic Acid	0.088	mg/L	U	olatile Fatty Ac	0.088	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-16	74-82-8	333	Methane	4.90	mg/L		RSK 175	0.0002	NE	1	7/16/2009	7/24/2009	7/24/2009
33-01	3301-MW-16	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	SW303	303	Nitrate as N	0.070	mg/L	J	353.2	0.0056	10	1	7/16/2009	7/20/2009	7/20/2009
33-01	3301-MW-16	NA	419	Nitrate/Nitrite as N	0.070	mg/L	J	353.2	0.021	NE	1	7/16/2009	7/19/2009	7/19/2009
33-01	3301-MW-16	SW304	304	Nitrite as N	0.0056	mg/L	U	353.2	0.0056	1	1	7/16/2009	7/17/2009	7/17/2009
33-01	3301-MW-16			Pentanoic Acid	0.18	mg/L	U	olatile Fatty Ac	0.18		1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-16	79-09-4	417	Propionic Acid	0.054	mg/L	U	olatile Fatty Ac	0.054	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-16	127-17-3	414	Pyruvic Acid	0.020	mg/L	U	olatile Fatty Ac	0.020	NE	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-16	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	14808-79-8	315	Sulfate as SO4	1.7	mg/L	J	300.0	0.078	250	1	7/16/2009	7/19/2009	7/20/2009
33-01	3301-MW-16	18496-25-8	187	Sulfide	0.10	mg/L	U	SM18 4500-S D	0.10	1	1	7/16/2009	7/21/2009	7/21/2009
33-01	3301-MW-16	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	SW337	337	Total Alkalinity	140	mg/L	D	310.2	17	NE	2	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	E-10195	357	Total Organic Carbon	15	mg/L		SM18 5310B	0.32	NE	1	7/16/2009	7/27/2009	7/27/2009
33-01	3301-MW-16	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/16/2009	7/23/2009	7/23/2009
33-01	3301-MW-16			Hydrogen	1.800	nM		AM20GAX	0.600			7/16/2009		7/22/2009

NOTES:
U = Compound concentration below laboratory method detection limit.
B = Compound also detected in laboratory method blank.
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
°C = 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.

Table 2
Groundwater Quality Summary
Edgecombe County Landfill
July 15 - 16, 2009 Sampling Event
S&ME Project No. 1054-07-238B

APPENDIX I VOCs EPA METHOD 8260B	UNITS	2L STANDARD	BACKGROUND MONITOR WELLS			COMPLIANCE MONITOR WELLS								QUALITY CONTROL			SWSL
			MW-3B	MW-4	MW-9	MW-5	MW-6	MW-7A	MW-12	MW-13	MW-14	MW-15	MW-16	DUPLICATE (MW-12)	EQUIPMENT BLANK	TRIP BLANK	
Benzene	µg/l	1	<0.20	<0.20	<0.20	**4.2JD**	<0.20	**1.1**	**3.2**	**1.9**	<0.20	<0.20	<0.20	**3.0**	<0.20	<0.20	1
Chlorobenzene	µg/l	50	<0.27	<0.27	<0.27	**12D**	<0.27	**1.7J**	**3.2**	**9.3**	<0.27	**0.98J**	<0.27	**3.3**	<0.27	<0.27	3
Chloroethane	µg/l	2800	<0.30	<0.30	<0.30	<3.0D	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**1.9J**	<0.30	<0.30	10
1,4-Dichlorobenzene	µg/l	1.4	<0.38	<0.38	<0.38	<3.8D	<0.38	**0.47J**	**5.5**	**1.7**	<0.38	<0.38	<0.38	**5.5**	<0.38	<0.38	1
1,1-Dichloroethane	µg/l	70	<0.33	<0.33	<0.33	**9.5JD**	<0.33	<0.33	**2.0J**	**0.95J**	<0.33	**1.4J**	<0.33	**2.0J**	<0.33	<0.33	5
cis-1,2-Dichloroethene	µg/l	70	<0.36	<0.36	<0.36	**600D**	<0.36	<0.36	**1.3J**	**20**	<0.36	**26**	<0.36	**1.3J**	<0.36	<0.36	5
trans-1,2-Dichloroethene	µg/l	100	<0.34	<0.34	<0.34	<3.4D	<0.34	<0.34	<0.34	<0.34	<0.34	**1.2J**	<0.34	<0.34	<0.34	<0.34	5
1,2-Dichloropropane	µg/l	0.51	<0.20	<0.20	<0.20	<2.0D	<0.20	<0.20	<0.20	<0.20	<0.20	**4.6**	<0.20	<0.20	<0.20	<0.20	1
Trichloroethene	µg/l	2.8	<0.38	<0.38	<0.38	<3.8D	<0.38	<0.38	<0.38	**2.2**	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	1
Vinyl chloride	µg/l	0.015	<0.30	<0.30	<0.30	**20D**	<0.30	<0.30	<0.30	**2.2**	<0.30	**1.9**	<0.30	<0.30	<0.30	<0.30	1
APP. I INORGANIC COMPOUNDS EPA METHOD 6010B	**UNITS**	**2L STANDARD**	**BACKGROUND MONITOR WELLS**			**COMPLIANCE MONITOR WELLS**								**QUALITY CONTROL**			**SWSL**
			MW-3B	**MW-4**	**MW-9**	**MW-5**	**MW-6**	**MW-7A**	**MW-12**	**MW-13**	**MW-14**	**MW-15**	**MW-16**	**DUPLICATE (MW-12)**	**EQUIPMENT BLANK**	**TRIP BLANK**	
Cobalt	µg/l	70*	**28.2**	<0.580	<0.580	**182**	**1.87J**	**1.10J**	**13.6**	**1.550**	<0.580	**9.54J**	**1.42J**	**13.3**	<0.580	NS	10

NOTES:
Samples were collected on July 15 - 16, 2009 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.
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-12.
Appendix I compounds not shown were not detected during this sampling event. See **Appendix I** of the report for laboratory reports.

Table 3
Geochemical / MNA Constituent Summary
Edgecombe County Landfill
July 15 - 16, 2009 Sampling Event
S&ME Project No. 1054-07-238B

MONITORED NATURAL ATTENUATION PARAMETERS**	UNITS	BACKGROUND MONITOR WELLS			COMPLIANCE MONITOR WELLS							
		MW-3B	MW-4	MW-9	MW-5	MW-6	MW-7A	MW-12	MW-13	MW-14	MW-15	MW-16
ph	Std	4.06	5.77	6.91	6.16	6.05	6.10	4.21	5.73	6.86	6.36	5.98
Temperature	°C	17.59	22.70	21.40	18.80	19.18	19.80	19.95	21.11	19.92	20.25	19.28
Specific Conductance	mS/cm	0.226	0.262	0.210	0.979	0.517	0.747	0.755	0.864	0.419	0.765	0.543
Oxygen Reduction Potential ORP	mV	297.1	145	100.1	86.6	18.1	47.8	258.9	17.7	76.9	72.7	68.4
Dissolved Oxygen	mg/l	0.49	2.56	0.91	0.71	0.53	0.98	0.90	0.88	0.66	0.68	0.56
Chloride	mg/l	27B	6.6B	4.1JB	12B	18B	17B	200BD	120BD	8.6B	13B	25B
Sulfate	mg/l	45J	24J	3.1J	41J	62J	3.0J	48J	38J	15J	13J	1.7J
Alkalinity	mg/l	<8.3	53	100	350D	140	190D	<8.3	150D	190	300D	140D
BOD	mg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
COD	mg/l	<3.1	30	<3.1	83	23	35	44	76	16	32	51
TOC (Total Organic Carbon)	mg/l	0.81J	7.5	<0.32	7.0	7.8	4.4	12	10	4.6	5.2	15
Iron	mg/l	4.2	0.298J	6.09	125	9.8	117	9.29	35.2	4.72	20.8	48.6
Nitrate	mg/l	0.40J	6.1J	0.027J	<0.0056	<0.0056	0.039J	0.22J	<0.0056	0.048J	0.031J	0.070J
Nitrate/Nitrite as N	mg/l	0.41	6.1 JD	0.027J	<0.021	<0.021	0.039J	0.022J	<0.021	0.058J	0.031J	0.070J
Nitite as N	mg/l	0.0068JB	<0.0056	<0.0056	0.0065JB	<0.0056	<0.0056	<0.0056	<0.0056	0.0097JB	<0.0056	<0.0056
Sulfide	mg/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Carbon Dioxide	mg/l	NS	64.6	NS	458D	NS	NS	463D	NS	NS	NS	308D
Ethane	mg/l	NS	<0.0004	NS	<0.0004	NS	NS	<0.0004	NS	NS	NS	<0.0004
Ethene	mg/l	NS	<0.0004	NS	0.002	NS	NS	<0.0004	NS	NS	NS	<0.0004
Methane	mg/l	NS	0.001	NS	0.466	NS	NS	0.051	NS	NS	NS	4.90
Volatile Fatty Acids	mg/l	NS	CS-BDL	NS	CS-BDL	NS	NS	CS-BDL	NS	NS	NS	CS-BDL
Hydrogen	nM	NS	0.83	NS	1.20	NS	NS	0.87	NS	NS	NS	1.80

NOTES:
Samples were collected on July 15 - 16, 2009 and analyzed by Environmental Conservation Laboratories, Inc. (ENCO) or Microseeps, Inc. (Hydrogen Only). Detection limits are shown on laboratory reports.
Values which are **BOLD** indicate levels above laboratory detection limits.
** Several methods were used in the laboratory analysis for the geochemical parameters. These methods are listed in the laboratory report in **Appendix I** of the report.
J = Analyte detected, but below the laboratory reporting limit therefore the result is an estimated concentration.
D = The sample was analyzed at dilution.
B = Compound also detected in laboratory method blank.
NS = Not Sampled for this parameter.
mg/L = Milligrams per Liter
Std = Standard Units
°C = Degrees Celsius
mS/cm = Microsiemens per Centimeter
mV = Millivolt
CS-BDL = Constituent Specific - All Below Laboratory Detection Limits
nM = Nanomolar

APPENDIX I

(REPORT OF LABORATORY ANALYSES)

Client Name: S and ME
Contact: Michelle Logut
Address: 3118 Spring Forest Road
Raleigh, NC 27616

Lab Proj #: P0907221
Report Date: 07/23/09
Client Proj Name: 1054-07-238B
Client Proj #: 1054-07-238B

Laboratory Results

Total pages in data package: 6

Lab Sample #	Client Sample ID
P0907221-01	MW-4
P0907221-02	MW-16
P0907221-03	MW-12
P0907221-04	MW-5

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo (DH) **Date:** 7.23.09

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: S and ME
Contact: Michelle Logut
Address: 3118 Spring Forest Road
Raleigh, NC 27616

Lab Proj #: P0907221
Report Date: 07/23/09
Client Proj Name: 1054-07-238B
Client Proj #: 1054-07-238B

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-4	Vapor	P0907221-01	15 Jul. 09 11:05	21 Jul. 09 11:23

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	0.830	0.600	nM	AM20GAX	7/22/09	sl

N - NELAC certified analysis

Client Name: S and ME
Contact: Michelle Logut
Address: 3118 Spring Forest Road
Raleigh, NC 27616

Lab Proj #: P0907221
Report Date: 07/23/09
Client Proj Name: 1054-07-238B
Client Proj #: 1054-07-238B

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-16	Vapor	P0907221-02	16 Jul. 09 9:30	21 Jul. 09 11:23

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	1.800	0.600	nM	AM20GAX	7/22/09	sl

N - NELAC certified analysis

Client Name: S and ME
Contact: Michelle Logut
Address: 3118 Spring Forest Road
Raleigh, NC 27616

Lab Proj #: P0907221
Report Date: 07/23/09
Client Proj Name: 1054-07-238B
Client Proj #: 1054-07-238B

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-12	Vapor	P0907221-03	16 Jul. 09 10:24	21 Jul. 09 11:23

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	0.870	0.600	nM	AM20GAX	7/22/09	sl

N - NELAC certified analysis

Client Name: S and ME
Contact: Michelle Logut
Address: 3118 Spring Forest Road
Raleigh, NC 27616

Lab Proj #: P0907221
Report Date: 07/23/09
Client Proj Name: 1054-07-238B
Client Proj #: 1054-07-238B

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-5	Vapor	P0907221-04	16 Jul. 09 11:21	21 Jul. 09 11:23

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	1.200	0.600	nM	AM20GAX	7/22/09	sl

N - NELAC certified analysis

Microseeps Lab. Proj. # P0907221

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. # 822

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No.: (412) 826-3433

Company : S&ME, INC.

Co. Address : 3201 SPRING FOREST RD, RALEIGH NC 27616

Phone # : 919-872-2660 Fax # : 919-876-3958

Proj. Manager : MICHELLE L. LOGUT

Proj. Name/Number : EDGECOMBE COUNTY LANDFILL, 1054-07-238B

Sampler's signature : Michelle L. Logut

Cooler Temp.

Results to :

Invoice to :

Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# of Cont.	HYDROGEN									Remarks
MW-4	AIR- BUBBLE SAMPLER		X		7/15/09	11:05	1	X									
MW-16	↓		X		7/16/09	09:30	1	X									
MW-12	↓		X		↓	10:24	1	X									
MW-5	↓		X		↓	11:21	1	X									

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Michelle L. Logut	S&ME, INC.	7/17/09	09:30			7/21	
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

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

www.encolabs.com

Tuesday, July 28, 2009

S&ME, Inc. (SM001)

Attn: Michelle Logut

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-07-238B, Project Name/Desc: Edgecombe County Landfill - July
ENCO Workorder: C907683

Dear Michelle Logut,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, July 15, 2009.

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

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 28.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 3301-MW4 **Lab ID: C907683-01** **Sampled: 07/15/09 11:25** **Received: 07/15/09 15:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	08/12/09			07/19/09	07:37	7/20/2009	10:24
EPA 310.2	07/29/09			07/16/09	09:18	7/16/2009	10:21
EPA 353.2	07/17/09	11:25		07/16/09	16:41	7/16/2009	17:52
EPA 353.2	08/12/09			07/20/09	09:38	7/20/2009	09:38
EPA 6010C	01/11/10			07/16/09	09:30	7/17/2009	11:57
EPA 8260B	07/29/09			07/22/09	10:26	7/22/2009	17:43
RSK 175	07/29/09			07/24/09	09:19	7/24/2009	10:22
SM 5210B	07/17/09	11:25	07/21/09	07/16/09	18:01	7/21/2009	12:45
SM 5220D	08/12/09			07/24/09	15:30	7/27/2009	14:00
SM18 4500-S D	07/22/09			07/21/09	12:40	7/21/2009	12:40
SM18 5310B	08/12/09			07/20/09	11:01	7/20/2009	13:31
Volatile Fatty Acids	07/29/09			07/21/09	11:24	7/21/2009	19:17

Client ID: 3301-MW4 **Lab ID: C907683-01RE1** **Sampled: 07/15/09 11:25** **Received: 07/15/09 15:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 353.2	08/12/09	07/19/09	10:28	7/19/2009	14:32

Client ID: 3301-MW9 **Lab ID: C907683-02** **Sampled: 07/15/09 13:15** **Received: 07/15/09 15:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	08/12/09			07/19/09	07:37	7/20/2009	10:41
EPA 310.2	07/29/09			07/16/09	09:18	7/16/2009	10:22
EPA 353.2	07/17/09	13:15		07/16/09	16:41	7/16/2009	17:53
EPA 353.2	08/12/09			07/19/09	07:06	7/19/2009	11:34
EPA 353.2	08/12/09			07/20/09	09:38	7/20/2009	09:38
EPA 6010C	01/11/10			07/16/09	09:30	7/17/2009	12:19
EPA 8260B	07/29/09			07/22/09	10:26	7/22/2009	18:27
SM 5210B	07/17/09	13:15	07/21/09	07/16/09	18:01	7/21/2009	12:45
SM 5220D	08/12/09			07/24/09	15:30	7/27/2009	14:00
SM18 4500-S D	07/22/09			07/21/09	12:40	7/21/2009	12:40
SM18 5310B	08/12/09			07/20/09	11:01	7/20/2009	13:31

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 3301-MW4 **Lab ID: C907683-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	64.6		1	0.780	2.50	NE	mg/L	RSK 175	
Chemical Oxygen Demand	30		1	3.1	10	NE	mg/L	SM 5220D	
Chloride	6.6	B	1	0.018	5.0	NE	mg/L	EPA 300.0	J-01
Iron - Total	298	J	1	31.0	50.0	300	ug/L	EPA 6010C	
Methane	0.001		1	0.0002	0.001	NE	mg/L	RSK 175	
Nitrate as N	6.1	J	1	0.0056	1.0	10	mg/L	EPA 353.2	
Sulfate as SO4	24	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Alkalinity	53		1	8.3	15	NE	mg/L	EPA 310.2	
Total Organic Carbon	7.5		1	0.32	1.0	NE	mg/L	SM18 5310B	

Client ID: 3301-MW4 **Lab ID: C907683-01RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Nitrate/Nitrite as N	6.1	D	10	0.21	1.0	NE	mg/L	EPA 353.2	

Client ID: 3301-MW9 **Lab ID: C907683-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	4.1	JB	1	0.018	5.0	NE	mg/L	EPA 300.0	J-01
Iron - Total	6090		1	31.0	50.0	300	ug/L	EPA 6010C	
Nitrate as N	0.027	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.027	J	1	0.021	0.10	NE	mg/L	EPA 353.2	
Sulfate as SO4	3.1	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Alkalinity	100		1	8.3	15	NE	mg/L	EPA 310.2	

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ANALYTICAL RESULTS

Description: 3301-MW4
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C907683-01
Sampled: 07/15/09 11:25
Sampled By: Michelle Logut/Bob Bryant

Received: 07/15/09 15:15
Work Order: C907683

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 17:43	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/22/09 17:43	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/22/09 17:43	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/22/09 17:43	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/09 17:43	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/22/09 17:43	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/22/09 17:43	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/22/09 17:43	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/09 17:43	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/09 17:43	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/22/09 17:43	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/22/09 17:43	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/22/09 17:43	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/22/09 17:43	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/22/09 17:43	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/22/09 17:43	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/22/09 17:43	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/22/09 17:43	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/22/09 17:43	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/22/09 17:43	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/22/09 17:43	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/22/09 17:43	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/22/09 17:43	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/22/09 17:43	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 17:43	JKG	

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Description: 3301-MW4
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C907683-01
Sampled: 07/15/09 11:25
Sampled By: Michelle Logut/Bob Bryant

Received: 07/15/09 15:15
Work Order: C907683

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] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/22/09 17:43	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/22/09 17:43	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 17:43	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9G22011*	*EPA 8260B*	*07/22/09 17:43*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*9G22011*	*EPA 8260B*	*07/22/09 17:43*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G22011*	*EPA 8260B*	*07/22/09 17:43*	*JKG*	

www.encolabs.com

Description: 3301-MW4
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C907683-01
Sampled: 07/15/09 11:25
Sampled By: Michelle Logut/Bob Bryant

Received: 07/15/09 15:15
Work Order: C907683

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
Cobalt [7440-48-4] ^	0.580	U	ug/L	1	0.580	10.0	10	EPA 6010C	07/17/09 11:57	VLO	
Iron [7439-89-6] ^	**298**	J	ug/L	1	31.0	50.0	300	EPA 6010C	07/17/09 11:57	VLO	

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Description: 3301-MW4
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C907683-01
Sampled: 07/15/09 11:25
Sampled By: Michelle Logut/Bob Bryant

Received: 07/15/09 15:15
Work Order: C907683

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/21/09 12:45	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**30**		mg/L	1	3.1	10	NE	SM 5220D	07/27/09 14:00	GPW	
Chloride [16887-00-6] ^	**6.6**	B	mg/L	1	0.018	5.0	NE	EPA 300.0	07/20/09 10:24	PEV	J-01
Nitrate as N [14797-55-8] ^	**6.1**	J	mg/L	1	0.0056	1.0	10	EPA 353.2	07/20/09 09:38	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**6.1**	D	mg/L	10	0.21	1.0	NE	EPA 353.2	07/19/09 14:32	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/16/09 17:52	AJB	
Sulfate as SO4 [14808-79-8] ^	**24**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/20/09 10:24	PEV	
Sulfide [18496-25-8] ^	0.10	U	mg/L	1	0.10	0.10	1	SM18 4500-S D	07/21/09 12:40	GPW	
Total Alkalinity [471-34-1] ^	**53**		mg/L	1	8.3	15	NE	EPA 310.2	07/16/09 10:21	PEV	

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Description: 3301-MW4
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C907683-01
Sampled: 07/15/09 11:25
Sampled By: Michelle Logut/Bob Bryant

Received: 07/15/09 15:15
Work Order: C907683

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**7.5**		mg/L	1	0.32	1.0	NE	SM18 5310B	07/20/09 13:31	RSA	

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Description: 3301-MW4
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C907683-01
Sampled: 07/15/09 11:25
Sampled By: Michelle Logut/Bob Bryant

Received: 07/15/09 15:15
Work Order: C907683

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**64.6**		mg/L	1	0.780	2.50	NE	RSK 175	07/24/09 10:22	LAC	
Ethane [74-84-0]	0.0004	U	mg/L	1	0.0004	0.002	NE	RSK 175	07/24/09 10:22	LAC	
Ethene [74-85-1]	0.0004	U	mg/L	1	0.0004	0.002	NE	RSK 175	07/24/09 10:22	LAC	
Methane [74-82-8]	**0.001**		mg/L	1	0.0002	0.001	NE	RSK 175	07/24/09 10:22	LAC	

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Description: 3301-MW4
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C907683-01
Sampled: 07/15/09 11:25
Sampled By: Michelle Logut/Bob Bryant

Received: 07/15/09 15:15
Work Order: C907683

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	0.071	U	mg/L	1	0.071	0.50	NE	Volatile Fatty Acids	07/21/09 19:17	LAC	
Butyric Acid [107-92-6]	0.16	U	mg/L	1	0.16	0.50	NE	Volatile Fatty Acids	07/21/09 19:17	LAC	
Hexanoic Acid [142-62-1]	0.32	U	mg/L	1	0.32	0.50		Volatile Fatty Acids	07/21/09 19:17	LAC	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	0.098	U	mg/L	1	0.098	0.50		Volatile Fatty Acids	07/21/09 19:17	LAC	
Iso-Hexanoic Acid [646-07-1]	0.41	U	mg/L	1	0.41	0.50		Volatile Fatty Acids	07/21/09 19:17	LAC	
iso-Pentanoic Acid [503-74-2]	0.13	U	mg/L	1	0.13	0.50		Volatile Fatty Acids	07/21/09 19:17	LAC	
Lactic Acid [50-21-5]	0.088	U	mg/L	1	0.088	0.50	NE	Volatile Fatty Acids	07/21/09 19:17	LAC	
Pentanoic Acid [109-52-4]	0.18	U	mg/L	1	0.18	0.50		Volatile Fatty Acids	07/21/09 19:17	LAC	
Propionic Acid [79-09-4]	0.054	U	mg/L	1	0.054	0.50	NE	Volatile Fatty Acids	07/21/09 19:17	LAC	
Pyruvic Acid [127-17-3]	0.020	U	mg/L	1	0.020	0.50	NE	Volatile Fatty Acids	07/21/09 19:17	LAC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*38*	*1*	*41.3*	*91 %*	*80-124*	*9G21007*	*Volatile Fatty Acids*	*07/21/09 19:17*	*LAC*	

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Description: 3301-MW9
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C907683-02
Sampled: 07/15/09 13:15
Sampled By: Michelle Logut/Bob Bryant

Received: 07/15/09 15:15
Work Order: C907683

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 18:27	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/22/09 18:27	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/22/09 18:27	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/22/09 18:27	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/09 18:27	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/22/09 18:27	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/22/09 18:27	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/22/09 18:27	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/09 18:27	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/09 18:27	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/22/09 18:27	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/22/09 18:27	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/22/09 18:27	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/22/09 18:27	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/22/09 18:27	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/22/09 18:27	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/22/09 18:27	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/22/09 18:27	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/22/09 18:27	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/22/09 18:27	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/22/09 18:27	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/22/09 18:27	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/22/09 18:27	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/22/09 18:27	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 18:27	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/22/09 18:27	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/22/09 18:27	JKG	

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Description: 3301-MW9
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C907683-02
Sampled: 07/15/09 13:15
Sampled By: Michelle Logut/Bob Bryant

Received: 07/15/09 15:15
Work Order: C907683

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 18:27	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9G22011*	*EPA 8260B*	*07/22/09 18:27*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*89 %*	*68-117*	*9G22011*	*EPA 8260B*	*07/22/09 18:27*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*93 %*	*69-110*	*9G22011*	*EPA 8260B*	*07/22/09 18:27*	*JKG*	

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Description: 3301-MW9
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C907683-02
Sampled: 07/15/09 13:15
Sampled By: Michelle Logut/Bob Bryant

Received: 07/15/09 15:15
Work Order: C907683

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
Cobalt [7440-48-4] ^	0.580	U	ug/L	1	0.580	10.0	10	EPA 6010C	07/17/09 12:19	VLO	
Iron [7439-89-6] ^	**6090**		ug/L	1	31.0	50.0	300	EPA 6010C	07/17/09 12:19	VLO	

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Description: 3301-MW9
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C907683-02
Sampled: 07/15/09 13:15
Sampled By: Michelle Logut/Bob Bryant

Received: 07/15/09 15:15
Work Order: C907683

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/21/09 12:45	GPW	
Chemical Oxygen Demand [ECL-0035] ^	3.1	U	mg/L	1	3.1	10	NE	SM 5220D	07/27/09 14:00	GPW	
Chloride [16887-00-6] ^	**4.1**	JB	mg/L	1	0.018	5.0	NE	EPA 300.0	07/20/09 10:41	PEV	J-01
Nitrate as N [14797-55-8] ^	**0.027**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/20/09 09:38	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.027**	J	mg/L	1	0.021	0.10	NE	EPA 353.2	07/19/09 11:34	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/16/09 17:53	AJB	
Sulfate as SO4 [14808-79-8] ^	**3.1**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/20/09 10:41	PEV	
Sulfide [18496-25-8] ^	0.10	U	mg/L	1	0.10	0.10	1	SM18 4500-S D	07/21/09 12:40	GPW	
Total Alkalinity [471-34-1] ^	**100**		mg/L	1	8.3	15	NE	EPA 310.2	07/16/09 10:22	PEV	

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Description: 3301-MW9
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C907683-02
Sampled: 07/15/09 13:15
Sampled By: Michelle Logut/Bob Bryant

Received: 07/15/09 15:15
Work Order: C907683

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	0.32	U	mg/L	1	0.32	1.0	NE	SM18 5310B	07/20/09 13:31	RSA	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G22011 - EPA 5030B_MS

Blank (9G22011-BLK1) Prepared: 07/22/2009 10:26 Analyzed: 07/22/2009 12:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G22011 - EPA 5030B_MS

Blank (9G22011-BLK1) Continued Prepared: 07/22/2009 10:26 Analyzed: 07/22/2009 12:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*68-117*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*91*	*69-110*			

LCS (9G22011-BS1) Prepared: 07/22/2009 10:26 Analyzed: 07/22/2009 13:22

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		98	75-133			
Benzene	18		1.0	ug/L	20.0		90	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		96	83-117			
Toluene	19		1.0	ug/L	20.0		93	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	75-115			

Matrix Spike (9G22011-MS1) Prepared: 07/22/2009 10:26 Analyzed: 07/22/2009 13:55

Source: C908471-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	110	75-133			
Benzene	21		1.0	ug/L	20.0	0.20 U	104	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	107	83-117			
Toluene	21		1.0	ug/L	20.0	0.27 U	105	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	105	75-115			

Matrix Spike Dup (9G22011-MSD1) Prepared: 07/22/2009 10:26 Analyzed: 07/22/2009 14:32

Source: C908471-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	109	75-133	0.7	20	
Benzene	20		1.0	ug/L	20.0	0.20 U	101	81-134	3	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	104	83-117	3	16	
Toluene	21		1.0	ug/L	20.0	0.27 U	105	71-118	0.2	17	
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	105	75-115	0.3	18	

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

Batch 9G16008 - EPA 3005A

Blank (9G16008-BLK1) Prepared: 07/16/2009 09:30 Analyzed: 07/17/2009 11:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron	31.0	U	50.0	ug/L							

LCS (9G16008-BS1) Prepared: 07/16/2009 09:30 Analyzed: 07/17/2009 11:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron	11100		50.0	ug/L	10000		111	80-120			

Matrix Spike (9G16008-MS1) Prepared: 07/16/2009 09:30 Analyzed: 07/17/2009 12:00

QUALITY CONTROL

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

Batch 9G16008 - EPA 3005A

Matrix Spike (9G16008-MS1) Continued Prepared: 07/16/2009 09:30 Analyzed: 07/17/2009 12:00

Source: C907683-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron	18400		50.0	ug/L	10000	298	181	75-125			QM-07

Matrix Spike Dup (9G16008-MSD1) Prepared: 07/16/2009 09:30 Analyzed: 07/17/2009 12:09

Source: C907683-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron	17500		50.0	ug/L	10000	298	172	75-125	5	20	QM-07

Post Spike (9G16008-PS1) Prepared: 07/16/2009 09:30 Analyzed: 07/17/2009 12:12

Source: C907683-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron	11.1		0.0500	mg/L	10.0	0.298	108	80-120			

Classical Chemistry Parameters - Quality Control

Batch 9G16006 - NO PREP

Blank (9G16006-BLK1) Prepared: 07/16/2009 09:18 Analyzed: 07/16/2009 10:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	8.3	U	15	mg/L							

LCS (9G16006-BS1) Prepared: 07/16/2009 09:18 Analyzed: 07/16/2009 10:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100		101	80-120			

Matrix Spike (9G16006-MS1) Prepared: 07/16/2009 09:18 Analyzed: 07/16/2009 10:12

Source: C905725-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	93		15	mg/L	100	19	75	80-120			QM-07

Matrix Spike Dup (9G16006-MSD1) Prepared: 07/16/2009 09:18 Analyzed: 07/16/2009 10:13

Source: C905725-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	89		15	mg/L	100	19	71	80-120	4	25	QM-07

Batch 9G16016 - NO PREP

Blank (9G16016-BLK1) Prepared: 07/16/2009 18:01 Analyzed: 07/21/2009 12:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L							

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G16016 - NO PREP

LCS (9G16016-BS1) Prepared: 07/16/2009 18:01 Analyzed: 07/21/2009 12:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	210		2.0	mg/L	198		105	85-115			

Duplicate (9G16016-DUP1) Prepared: 07/16/2009 18:01 Analyzed: 07/21/2009 12:45

Source: C907683-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L		2.0 U				25	

Batch 9G16028 - NO PREP

Blank (9G16028-BLK1) Prepared: 07/16/2009 16:41 Analyzed: 07/16/2009 17:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.0056	U	0.10	mg/L							

LCS (9G16028-BS1) Prepared: 07/16/2009 16:41 Analyzed: 07/16/2009 17:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.1		0.10	mg/L	1.00		107	80-120			

Matrix Spike (9G16028-MS1) Prepared: 07/16/2009 16:41 Analyzed: 07/16/2009 17:48

Source: C906767-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00	0.0078	101	80-120			

Matrix Spike Dup (9G16028-MSD1) Prepared: 07/16/2009 16:41 Analyzed: 07/16/2009 17:49

Source: C906767-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.1		0.10	mg/L	1.00	0.0078	106	80-120	4	25	

Batch 9G19002 - NO PREP

Blank (9G19002-BLK1) Prepared: 07/19/2009 07:06 Analyzed: 07/19/2009 10:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.021	U	0.10	mg/L							

LCS (9G19002-BS1) Prepared: 07/19/2009 07:06 Analyzed: 07/19/2009 10:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	1.25		96	80-120			

Matrix Spike (9G19002-MS1) Prepared: 07/19/2009 07:06 Analyzed: 07/19/2009 10:40

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G19002 - NO PREP

Matrix Spike (9G19002-MS1) Continued Prepared: 07/19/2009 07:06 Analyzed: 07/19/2009 10:40

Source: C907513-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.6		0.10	mg/L	1.28	0.14	112	80-120			

Matrix Spike Dup (9G19002-MSD1) Prepared: 07/19/2009 07:06 Analyzed: 07/19/2009 10:42

Source: C907513-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.6		0.10	mg/L	1.28	0.14	116	80-120	3	25	

Batch 9G19005 - NO PREP

Blank (9G19005-BLK1) Prepared: 07/19/2009 07:37 Analyzed: 07/20/2009 07:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	**2.2**	**J**	5.0	mg/L							
Sulfate as SO4	0.078	U	5.0	mg/L							

LCS (9G19005-BS1) Prepared: 07/19/2009 07:37 Analyzed: 07/20/2009 07:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	46	B	5.0	mg/L	50.0		91	90-110			
Sulfate as SO4	47		5.0	mg/L	50.0		94	90-110			

Matrix Spike (9G19005-MS1) Prepared: 07/19/2009 07:37 Analyzed: 07/20/2009 07:38

Source: C906086-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	56	B	5.0	mg/L	50.0	9.4	94	80-120			
Sulfate as SO4	49		5.0	mg/L	50.0	0.078 U	97	80-120			

Matrix Spike Dup (9G19005-MSD1) Prepared: 07/19/2009 07:37 Analyzed: 07/20/2009 07:54

Source: C906086-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	57	B	5.0	mg/L	50.0	9.4	95	80-120	0.9	15	
Sulfate as SO4	49		5.0	mg/L	50.0	0.078 U	98	80-120	1	15	

Batch 9G19006 - NO PREP

Blank (9G19006-BLK1) Prepared: 07/19/2009 10:28 Analyzed: 07/19/2009 13:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.021	U	0.10	mg/L							

LCS (9G19006-BS1) Prepared: 07/19/2009 10:28 Analyzed: 07/19/2009 13:03

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G19006 - NO PREP

LCS (9G19006-BS1) Continued — Prepared: 07/19/2009 10:28 Analyzed: 07/19/2009 13:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.0		0.10	mg/L	1.25		80	80-120			

Matrix Spike (9G19006-MS1) — Prepared: 07/19/2009 10:28 Analyzed: 07/19/2009 15:08

Source: C908148-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.28	0.021 U	98	80-120			

Matrix Spike Dup (9G19006-MSD1) — Prepared: 07/19/2009 10:28 Analyzed: 07/19/2009 15:10

Source: C908148-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.4		0.10	mg/L	1.28	0.021 U	111	80-120	12	25	

Batch 9G21016 - NO PREP

Blank (9G21016-BLK1) — Prepared & Analyzed: 07/21/2009 12:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.10	U	0.10	mg/L							

LCS (9G21016-BS1) — Prepared & Analyzed: 07/21/2009 12:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.42		0.10	mg/L	0.401		104	80-120			

Matrix Spike (9G21016-MS1) — Prepared & Analyzed: 07/21/2009 12:40

Source: C907683-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.35		0.10	mg/L	0.401	-0.02	92	80-120			

Matrix Spike Dup (9G21016-MSD1) — Prepared & Analyzed: 07/21/2009 12:40

Source: C907683-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.37		0.10	mg/L	0.401	-0.02	98	80-120	6	25	

Batch 9G24018 - NO PREP

Blank (9G24018-BLK1) — Prepared: 07/24/2009 15:30 Analyzed: 07/27/2009 14:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	3.1	U	10	mg/L							

LCS (9G24018-BS1) — Prepared: 07/24/2009 15:30 Analyzed: 07/27/2009 14:00

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G24018 - NO PREP

LCS (9G24018-BS1) Continued Prepared: 07/24/2009 15:30 Analyzed: 07/27/2009 14:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	520		10	mg/L	500		103	90-110			

Matrix Spike (9G24018-MS1) Prepared: 07/24/2009 15:30 Analyzed: 07/27/2009 14:00

Source: C907335-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	660		10	mg/L	500	260	81	90-110			QM-07

Matrix Spike Dup (9G24018-MSD1) Prepared: 07/24/2009 15:30 Analyzed: 07/27/2009 14:00

Source: C907335-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	640		10	mg/L	500	260	77	90-110	3	10	QM-07

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 9G24001 - NO PREP ANALYTIX

Blank (9G24001-BLK1) Prepared: 07/24/2009 09:19 Analyzed: 07/24/2009 09:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	0.780	U	2.50	mg/L							
Ethane	0.0004	U	0.002	mg/L							
Ethene	0.0004	U	0.002	mg/L							
Methane	0.0002	U	0.001	mg/L							

LCS (9G24001-BS1) Prepared: 07/24/2009 09:19 Analyzed: 07/24/2009 10:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	20.0		2.50	mg/L	26.3		76	71-119			
Ethane	0.180		0.002	mg/L	0.179		100	75-123			
Ethene	0.171		0.002	mg/L	0.167		102	72-131			
Methane	0.0945		0.001	mg/L	0.0958		99	74-116			

Matrix Spike (9G24001-MS1) Prepared: 07/24/2009 09:19 Analyzed: 07/24/2009 10:09

Source: C907683-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	89.4		2.50	mg/L	26.3	64.6	94	71-119			
Ethane	0.179		0.002	mg/L	0.179	0.0004 U	100	75-123			
Ethene	0.163		0.002	mg/L	0.167	0.0004 U	97	72-131			
Methane	0.0969		0.001	mg/L	0.0958	0.00132	100	74-116			

Matrix Spike Dup (9G24001-MSD1) Prepared: 07/24/2009 09:19 Analyzed: 07/24/2009 10:13

Source: C907683-01

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 9G24001 - NO PREP ANALYTIX

Matrix Spike Dup (9G24001-MSD1) Continued Prepared: 07/24/2009 09:19 Analyzed: 07/24/2009 10:13

Source: C907683-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	89.9		2.50	mg/L	26.3	64.6	96	71-119	0.5	10	
Ethane	0.182		0.002	mg/L	0.179	0.0004 U	102	75-123	2	14	
Ethene	0.167		0.002	mg/L	0.167	0.0004 U	100	72-131	2	12	
Methane	0.0983		0.001	mg/L	0.0958	0.00132	101	74-116	1	18	

Volatile Fatty Acids by HPLC - Quality Control

Batch 9G21007 - NO PREP ANALYTIX

Blank (9G21007-BLK1) Prepared: 07/21/2009 11:24 Analyzed: 07/21/2009 15:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	0.071	U	0.50	mg/L							
Butyric Acid	0.16	U	0.50	mg/L							
Hexanoic Acid	0.32	U	0.50	mg/L							
HIBA (2-Hydroxyisobutyric Acid)	0.098	U	0.50	mg/L							
iso-Hexanoic Acid	0.41	U	0.50	mg/L							
iso-Pentanoic Acid	0.13	U	0.50	mg/L							
Lactic Acid	0.088	U	0.50	mg/L							
Pentanoic Acid	0.18	U	0.50	mg/L							
Propionic Acid	0.054	U	0.50	mg/L							
Pyruvic Acid	0.020	U	0.50	mg/L							
Surrogate: Trimethylacetic acid	*40*			*mg/L*	*41.3*		*97*	*80-124*			

LCS (9G21007-BS1) Prepared: 07/21/2009 11:24 Analyzed: 07/21/2009 16:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	16		0.50	mg/L	20.0		79	73-125			
Butyric Acid	17		0.50	mg/L	20.0		83	80-120			
Hexanoic Acid	20		0.50	mg/L	20.0		98	78-120			
HIBA (2-Hydroxyisobutyric Acid)	17		0.50	mg/L	20.0		87	80-120			
iso-Hexanoic Acid	19		0.50	mg/L	20.0		95	80-120			
iso-Pentanoic Acid	16		0.50	mg/L	20.0		78	78-120			
Lactic Acid	17		0.50	mg/L	20.0		86	56-154			
Pentanoic Acid	16		0.50	mg/L	20.0		79	77-120			
Propionic Acid	17		0.50	mg/L	20.0		83	80-120			
Pyruvic Acid	11		0.50	mg/L	20.0		57	37-142			
Surrogate: Trimethylacetic acid	*36*			*mg/L*	*41.3*		*86*	*80-124*			

Matrix Spike (9G21007-MS1) Prepared: 07/21/2009 11:24 Analyzed: 07/21/2009 17:12

Source: C907683-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	18		0.50	mg/L	20.0	0.071 U	89	73-125			
Butyric Acid	17		0.50	mg/L	20.0	0.16 U	86	80-120			
Hexanoic Acid	18		0.50	mg/L	20.0	0.32 U	92	78-120			
HIBA (2-Hydroxyisobutyric Acid)	16		0.50	mg/L	20.0	0.098 U	80	80-120			

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 9G21007 - NO PREP ANALYTIX

Matrix Spike (9G21007-MS1) Continued Prepared: 07/21/2009 11:24 Analyzed: 07/21/2009 17:12

Source: C907683-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iso-Hexanoic Acid	18		0.50	mg/L	20.0	0.41 U	90	80-120			
Iso-Pentanoic Acid	18		0.50	mg/L	20.0	0.13 U	90	78-120			
Lactic Acid	18		0.50	mg/L	20.0	0.088 U	92	56-154			
Pentanoic Acid	16		0.50	mg/L	20.0	0.18 U	81	77-120			
Propionic Acid	17		0.50	mg/L	20.0	0.054 U	85	80-120			
Pyruvic Acid	11		0.50	mg/L	20.0	0.020 U	57	37-142			
Surrogate: Trimethylacetic acid	*38*			*mg/L*	*41.3*		*91*	*80-124*			

Matrix Spike Dup (9G21007-MSD1) Prepared: 07/21/2009 11:24 Analyzed: 07/21/2009 18:14

Source: C907683-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	17		0.50	mg/L	20.0	0.071 U	84	73-125	7	10	
Butyric Acid	17		0.50	mg/L	20.0	0.16 U	85	80-120	0.8	10	
Hexanoic Acid	20		0.50	mg/L	20.0	0.32 U	98	78-120	6	34	
HIBA (2-Hydroxyisobutyric Acid)	16		0.50	mg/L	20.0	0.098 U	82	80-120	2	15	
Iso-Hexanoic Acid	19		0.50	mg/L	20.0	0.41 U	95	80-120	4	15	
Iso-Pentanoic Acid	18		0.50	mg/L	20.0	0.13 U	89	78-120	1	15	
Lactic Acid	18		0.50	mg/L	20.0	0.088 U	90	56-154	2	19	
Pentanoic Acid	16		0.50	mg/L	20.0	0.18 U	81	77-120	0.8	10	
Propionic Acid	17		0.50	mg/L	20.0	0.054 U	83	80-120	2	10	
Pyruvic Acid	12		0.50	mg/L	20.0	0.020 U	58	37-142	0.6	10	
Surrogate: Trimethylacetic acid	*37*			*mg/L*	*41.3*		*91*	*80-124*			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G20016 - NO PREP

Blank (9G20016-BLK1) Prepared: 07/20/2009 11:01 Analyzed: 07/20/2009 13:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	0.32	U	1.0	mg/L							

LCS (9G20016-BS1) Prepared: 07/20/2009 11:01 Analyzed: 07/20/2009 13:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	39		1.0	mg/L	41.6		94	85-115			

Matrix Spike (9G20016-MS1) Prepared: 07/20/2009 11:01 Analyzed: 07/20/2009 13:31

Source: A903536-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	39		1.0	mg/L	40.0	0.66	95	85-115			

Matrix Spike Dup (9G20016-MSD1) Prepared: 07/20/2009 11:01 Analyzed: 07/20/2009 13:31

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G20016 - NO PREP

Matrix Spike Dup (9G20016-MSD1) Continued Prepared: 07/20/2009 11:01 Analyzed: 07/20/2009 13:31

Source: A903536-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	39		1.0	mg/L	40.0	0.66	95	85-115	0.03	21	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10175 Central Port Dr. Orlando, FL 32824 (407) 825-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211 Jacksonville, FL 32216-0960 (904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3260 Fax (919) 467-3315

Page 1 of 2

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-07-238B
Address: 3201 Spring Forest Road	Project Name/Desc: Edgecombe County Landfill - July
City/ST/Zip: Raleigh, NC 27610	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Recording Contact: Michelle Logan
Sampler(s) Name, Affiliation (Firm): MICHELLE LOGAN, S&ME; BOB BRYANT, S&ME	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C907683

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Sulfate 300	Sulfide SM4500-S D	TOC 415.1	Sample Comments
	~~MW-3B~~				~~GW~~	~~11~~	~~X~~	~~X~~	~~X~~	
	MW-4	7/15/09	11:25	GRAB	GW	16	X	X	X	
	~~MW-5~~				~~GW~~	~~16~~	~~X~~	~~X~~	~~X~~	
	~~MW-6~~				~~GW~~	~~11~~	~~X~~	~~X~~	~~X~~	
	~~MW-7A~~				~~GW~~	~~11~~	~~X~~	~~X~~	~~X~~	
	MW-9	7/15/09	13:15	GRAB	GW	11	X	X	X	
	~~MW-12~~				~~GW~~	~~16~~	~~X~~	~~X~~	~~X~~	
	~~MW-13~~				~~GW~~	~~11~~	~~X~~	~~X~~	~~X~~	
	~~MW-14~~				~~GW~~	~~11~~	~~X~~	~~X~~	~~X~~	
	~~MW-15~~				~~GW~~	~~11~~	~~X~~	~~X~~	~~X~~	
	~~MW-16~~				~~GW~~	~~16~~	~~X~~	~~X~~	~~X~~	
	~~Upstream (SW-1)~~				~~GW~~					

<- Total # of Containers

Sample Kit Required By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
JK	7.2.09	[signature]	7/15/09 / 15:10	[signature]	7/15/09 15:15
Comments:		Relinquished By	Date/Time	Received By [signature]	Date/Time 7/15/09 1700
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-61 C-601 C-265 25CC-425 C-487

Condition Upon Receipt: X Acceptable ___ Unacceptable

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 852-5345

4810 Executive Park Court, Suite 211
Jacksonville, FL 32210-8069
(904) 296-3007 Fax (904) 296-6210

1030-A Woodlands Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 2 of 2

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-07-233E
Address: 3201 Spring Forest Road	Project Name/Desc: Edgecombe County Landfill - July
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3952	Reporting Contact: Michelle Logut
Sampler(s) Name, Affiliation (Print): MICHELLE LOGUT, S&ME; BOB BRYANT, S&ME	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note: Rush requests subject to acceptance by the lab

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C907683

Preservation (Ice Cools) (Contains as necessary)

Item #	Sample ID (Field Identifier)	Collection Date	Collection Time	Comp / Grab	Matrix (GW, SW, etc.)	Total # of Containers	8260B Appendix 1	Methane, Ethane, Ethene SM18-20 3.2	BOD SM5210B	Co	Co,Fe	COD SM5220D	Fatty Acids	Nitrate Calc 353.2	NOx 353.2	RSK 175 + CO2	Sample Comments
	~~MW-03~~				GW	11	X	X	X		X	X		X	X		
	MW-4	7/15/09	11:25	GRAB	GW	16	X	X	X		X	X	X	X	X	X	
	~~MW-5~~				GW	16	X	X	X		X	X	X	X	X	X	
	~~MW-7~~				GW	11	X	X	X		X	X		X	X		
	~~MW-7A~~				GW	11	X	X	X		X	X		X	X		
	MW-8	7/15/09	13:15	GRAB	GW	11	X	X	X		X	X		X	X		
	~~MW-12~~				GW	16	X	X	X		X	X	X	X	X	X	
	~~MW-13~~				GW	11	X	X	X		X	X		X	X		
	~~MW-14~~				GW	11	X	X	X		X	X		X	X		
	~~MW-15~~				GW	11	X	X	X		X	X		X	X		
	~~MW-16~~				GW	16	X	X	X		X	X	X	X	X	X	
	~~Upstream (SW-01)~~				GW	2	X			X							

<- Total # of Containers

Samples Returned By: JK	Date/Time: 7.2.09	Relinquished By: [signature]	Date/Time: 7/15/09 15:10
Comments:		Relinquished By:	Date/Time:
		Relinquished By:	Date/Time:
Received By: [signature]	Date/Time: 7/15/09 15:15	Received By: [signature]	Date/Time: 7/15/09 1700
Received By:	Date/Time:	Received By:	Date/Time:
Cooler ID & Temperature Receipt: C-61 C-641 C-26523 C-425 C-487		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater Air O-Other (detail in comments) Preservatives: Use HCl, HNO3, H2SO4, 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. The Kitchen Sink and other agreements apply.

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

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Thursday, July 30, 2009

S&ME, Inc. (SM001)

Attn: Michelle Logut

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-07-238B, Project Name/Desc: Edgecombe County Landfill - July
ENCO Workorder: C908317

Dear Michelle Logut,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, July 17, 2009.

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

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 72.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 3301-MW3B Lab ID: C908317-01 Sampled: 07/15/09 15:50 Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/12/09			07/19/09	07:37	7/20/2009 11:14
EPA 310.2	07/29/09			07/23/09	07:44	7/23/2009 08:49
EPA 353.2	07/17/09	15:50		07/17/09	10:56	7/17/2009 11:48
EPA 353.2	08/12/09			07/19/09	10:30	7/19/2009 15:23
EPA 353.2	08/12/09			07/20/09	09:41	7/20/2009 09:41
EPA 6010C	01/11/10			07/17/09	12:45	7/21/2009 13:21
EPA 8260B	07/29/09			07/21/09	13:46	7/22/2009 09:07
SM 5210B	07/17/09	15:50	07/22/09	07/17/09	12:24	7/22/2009 15:41
SM 5220D	08/12/09			07/27/09	14:00	7/27/2009 18:40
SM18 4500-S D	07/22/09			07/21/09	12:40	7/21/2009 12:40
SM18 5310B	08/12/09			07/27/09	10:42	7/27/2009 14:39

Client ID: 3301-MW5 Lab ID: C908317-02 Sampled: 07/16/09 16:30 Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/13/09			07/19/09	07:37	7/20/2009 11:31
EPA 353.2	07/18/09	16:30		07/17/09	10:56	7/17/2009 11:51
EPA 353.2	08/13/09			07/19/09	10:30	7/19/2009 15:30
EPA 353.2	08/13/09			07/20/09	09:41	7/20/2009 09:41
EPA 6010C	01/12/10			07/17/09	12:45	7/21/2009 13:24
RSK 175	07/30/09			07/24/09	09:19	7/24/2009 10:25
SM 5210B	07/18/09	16:30	07/22/09	07/17/09	12:24	7/22/2009 15:41
SM 5220D	08/13/09			07/27/09	14:00	7/27/2009 18:40
SM18 4500-S D	07/23/09			07/21/09	12:40	7/21/2009 12:40
SM18 5310B	08/13/09			07/27/09	10:42	7/27/2009 14:39
Volatile Fatty Acids	07/30/09			07/21/09	11:24	7/21/2009 20:19

Client ID: 3301-MW5 Lab ID: C908317-02RE1 Sampled: 07/16/09 16:30 Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 310.2	07/30/09	07/23/09	07:44	7/23/2009 09:09
EPA 8260B	07/30/09	07/21/09	13:46	7/22/2009 20:07
RSK 175	07/30/09	07/24/09	09:19	7/24/2009 10:46

Client ID: 3301-MW6 Lab ID: C908317-03 Sampled: 07/15/09 16:50 Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/12/09			07/19/09	07:37	7/20/2009 11:48
EPA 310.2	07/29/09			07/23/09	07:44	7/23/2009 08:53
EPA 353.2	07/17/09	16:50		07/17/09	10:56	7/17/2009 11:51
EPA 353.2	08/12/09			07/19/09	10:30	7/19/2009 15:32
EPA 353.2	08/12/09			07/20/09	09:41	7/20/2009 09:41
EPA 6010C	01/11/10			07/17/09	12:45	7/21/2009 13:26
SM 5210B	07/17/09	16:50	07/22/09	07/17/09	12:24	7/22/2009 15:41
SM 5220D	08/12/09			07/27/09	14:00	7/27/2009 18:40
SM18 4500-S D	07/22/09			07/21/09	12:40	7/21/2009 12:40
SM18 5310B	08/12/09			07/27/09	10:42	7/27/2009 14:39

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Client ID: 3301-MW6 | **Lab ID: C908317-03RE1** | **Sampled: 07/15/09 16:50** | **Received: 07/17/09 08:25**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/29/09			07/22/09	10:27	7/22/2009 20:40

Client ID: 3301-MW7A | **Lab ID: C908317-04** | **Sampled: 07/16/09 11:50** | **Received: 07/17/09 08:25**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/13/09			07/19/09	07:37	7/20/2009 12:04
EPA 353.2	07/18/09	11:50		07/17/09	10:56	7/17/2009 11:52
EPA 353.2	08/13/09			07/19/09	10:30	7/19/2009 15:34
EPA 353.2	08/13/09			07/20/09	09:41	7/20/2009 09:41
EPA 6010C	01/12/10			07/17/09	12:45	7/21/2009 13:29
EPA 8260B	07/30/09			07/22/09	10:26	7/22/2009 21:13
SM 5210B	07/18/09	11:50	07/22/09	07/17/09	12:24	7/22/2009 15:41
SM 5220D	08/13/09			07/27/09	14:00	7/27/2009 18:40
SM18 4500-S D	07/23/09			07/21/09	12:40	7/21/2009 12:40
SM18 5310B	08/13/09			07/27/09	10:42	7/27/2009 14:39

Client ID: 3301-MW7A | **Lab ID: C908317-04RE1** | **Sampled: 07/16/09 11:50** | **Received: 07/17/09 08:25**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 310.2	07/30/09		07/23/09	07:44	7/23/2009 09:10

Client ID: 3301-MW12 | **Lab ID: C908317-05** | **Sampled: 07/16/09 15:35** | **Received: 07/17/09 08:25**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/13/09			07/19/09	07:37	7/20/2009 12:21
EPA 310.2	07/30/09			07/23/09	07:44	7/23/2009 08:55
EPA 353.2	07/18/09	15:35		07/17/09	10:56	7/17/2009 11:53
EPA 353.2	08/13/09			07/19/09	10:30	7/19/2009 15:36
EPA 353.2	08/13/09			07/20/09	09:41	7/20/2009 09:41
EPA 6010C	01/12/10			07/17/09	12:45	7/21/2009 13:31
EPA 8260B	07/30/09			07/22/09	10:26	7/22/2009 21:46
RSK 175	07/30/09			07/24/09	09:19	7/24/2009 10:29
SM 5210B	07/18/09	15:35	07/22/09	07/17/09	12:24	7/22/2009 15:41
SM 5220D	08/13/09			07/27/09	14:00	7/27/2009 18:40
SM18 4500-S D	07/23/09			07/21/09	12:40	7/21/2009 12:40
SM18 5310B	08/13/09			07/27/09	10:42	7/27/2009 14:39
Volatile Fatty Acids	07/30/09			07/21/09	11:24	7/21/2009 21:22

Client ID: 3301-MW12 | **Lab ID: C908317-05RE1** | **Sampled: 07/16/09 15:35** | **Received: 07/17/09 08:25**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/13/09		07/19/09	07:37	7/20/2009 15:24
RSK 175	07/30/09		07/24/09	09:19	7/24/2009 10:50

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Client ID: 3301-MW13	Lab ID: C908317-06	Sampled: 07/16/09 14:25	Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	08/13/09			07/19/09	07:37	7/20/2009	12:37
EPA 353.2	07/18/09	14:25		07/17/09	10:56	7/17/2009	11:54
EPA 353.2	08/13/09			07/19/09	10:30	7/19/2009	15:38
EPA 353.2	08/13/09			07/20/09	09:41	7/20/2009	09:41
EPA 6010C	01/12/10			07/17/09	12:45	7/21/2009	13:33
EPA 8260B	07/30/09			07/22/09	10:26	7/22/2009	22:18
SM 5210B	07/18/09	14:25	07/22/09	07/17/09	12:24	7/22/2009	15:41
SM 5220D	08/13/09			07/27/09	14:00	7/27/2009	18:40
SM18 4500-S D	07/23/09			07/21/09	12:40	7/21/2009	12:40
SM18 5310B	08/13/09			07/27/09	10:42	7/27/2009	14:39

Client ID: 3301-MW13	Lab ID: C908317-06RE1	Sampled: 07/16/09 14:25	Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	08/13/09		07/19/09	07:37	7/20/2009	15:41
EPA 310.2	07/30/09		07/23/09	07:44	7/23/2009	09:11

Client ID: 3301-MW14	Lab ID: C908317-07	Sampled: 07/15/09 17:55	Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	08/12/09			07/19/09	07:37	7/20/2009	12:54
EPA 310.2	07/29/09			07/23/09	07:44	7/23/2009	08:57
EPA 353.2	07/17/09	17:55		07/17/09	10:56	7/17/2009	11:56
EPA 353.2	08/12/09			07/19/09	10:30	7/19/2009	15:42
EPA 353.2	08/12/09			07/20/09	09:41	7/20/2009	09:41
EPA 6010C	01/11/10			07/17/09	12:45	7/21/2009	13:36
SM 5210B	07/17/09	17:55	07/22/09	07/17/09	12:24	7/22/2009	15:41
SM 5220D	08/12/09			07/27/09	14:00	7/27/2009	18:40
SM18 4500-S D	07/22/09			07/21/09	12:40	7/21/2009	12:40
SM18 5310B	08/12/09			07/27/09	10:42	7/27/2009	14:39

Client ID: 3301-MW14	Lab ID: C908317-07RE1	Sampled: 07/15/09 17:55	Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B	07/29/09	07/23/09	12:36	7/23/2009	20:18

Client ID: 3301-MW15	Lab ID: C908317-08	Sampled: 07/16/09 10:50	Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	08/13/09			07/19/09	07:37	7/20/2009	13:44
EPA 353.2	07/18/09	10:50		07/17/09	10:56	7/17/2009	11:57
EPA 353.2	08/13/09			07/19/09	10:30	7/19/2009	15:44
EPA 353.2	08/13/09			07/20/09	09:41	7/20/2009	09:41
EPA 6010C	01/12/10			07/17/09	12:45	7/21/2009	13:38
SM 5210B	07/18/09	10:50	07/22/09	07/17/09	12:24	7/22/2009	15:41
SM 5220D	08/13/09			07/27/09	14:00	7/27/2009	18:40
SM18 4500-S D	07/23/09			07/21/09	12:40	7/21/2009	12:40
SM18 5310B	08/13/09			07/27/09	10:42	7/27/2009	14:39

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Client ID: 3301-MW15	Lab ID: C908317-08RE1	Sampled: 07/16/09 10:50	Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 310.2	07/30/09	07/23/09 07:44	7/23/2009 09:12
EPA 8260B	07/30/09	07/23/09 12:36	7/23/2009 20:48

Client ID: 3301-MW16	Lab ID: C908317-09	Sampled: 07/16/09 09:55	Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	08/13/09	07/19/09 07:37	7/20/2009 14:01
EPA 353.2	07/18/09 09:55	07/17/09 10:56	7/17/2009 11:58
EPA 353.2	08/13/09	07/19/09 10:30	7/19/2009 15:47
EPA 353.2	08/13/09	07/20/09 09:41	7/20/2009 09:41
EPA 6010C	01/12/10	07/17/09 12:45	7/21/2009 13:41
RSK 175	07/30/09	07/24/09 09:19	7/24/2009 10:33
SM 5210B	07/18/09 09:55 07/22/09	07/17/09 12:24	7/22/2009 15:41
SM 5220D	08/13/09	07/27/09 14:00	7/27/2009 18:40
SM18 4500-S D	07/23/09	07/21/09 12:40	7/21/2009 12:40
SM18 5310B	08/13/09	07/27/09 10:42	7/27/2009 14:39
Volatile Fatty Acids	07/30/09	07/21/09 11:24	7/21/2009 22:24

Client ID: 3301-MW16	Lab ID: C908317-09RE1	Sampled: 07/16/09 09:55	Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 310.2	07/30/09	07/23/09 07:44	7/23/2009 09:12
EPA 8260B	07/30/09	07/23/09 12:36	7/23/2009 21:18
RSK 175	07/30/09	07/24/09 09:19	7/24/2009 10:54

Client ID: 3301-Duplicate	Lab ID: C908317-10	Sampled: 07/16/09 00:00	Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/12/10	07/17/09 12:45	7/21/2009 13:50

Client ID: 3301-Duplicate	Lab ID: C908317-10RE1	Sampled: 07/16/09 00:00	Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	07/30/09	07/23/09 12:36	7/23/2009 21:48

Client ID: 3301-Equipment Blank	Lab ID: C908317-11	Sampled: 07/16/09 11:50	Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/12/10	07/17/09 12:45	7/21/2009 13:53

Client ID: 3301-Equipment Blank	Lab ID: C908317-11RE1	Sampled: 07/16/09 11:50	Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	07/30/09	07/23/09 12:36	7/23/2009 22:18

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Client ID: 3301-Trip Blank	Lab ID: C908317-12	Sampled: 07/15/09 15:50	Received: 07/17/09 08:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	07/29/09	07/22/09 10:26	7/22/2009 19:36

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 3301-MW3B Lab ID: C908317-01

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	27	B	1	0.018	5.0	NE	mg/L	EPA 300.0	QB-01
Cobalt - Total	28.2		1	0.580	10.0	10	ug/L	EPA 6010C	
Iron - Total	4200		1	31.0	50.0	300	ug/L	EPA 6010C	
Nitrate as N	0.40	J	1	0.00S6	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.41		1	0.021	0.10	NE	mg/L	EPA 353.2	
Nitrite as N	0.0068	JB	1	0.0056	0.10	1	mg/L	EPA 353.2	J-01
Sulfate as SO4	45	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Organic Carbon	0.81	J	1	0.32	1.0	NE	mg/L	SM18 5310B	

Client ID: 3301-MW5 Lab ID: C908317-02

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chemical Oxygen Demand	83		1	3.1	10	NE	mg/L	SM 5220D	
Chloride	12	B	1	0.018	5.0	NE	mg/L	EPA 300.0	J-01
Cobalt - Total	182		1	0.580	10.0	10	ug/L	EPA 6010C	
Ethene	0.002		1	0.0004	0.002	NE	mg/L	RSK 175	
Iron - Total	125000		1	31.0	50.0	300	ug/L	EPA 6010C	
Methane	0.466		1	0.0002	0.001	NE	mg/L	RSK 175	
Nitrite as N	0.0065	JB	1	0.0056	0.10	1	mg/L	EPA 353.2	J-01
Sulfate as SO4	41	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Organic Carbon	7.0		1	0.32	1.0	NE	mg/L	SM18 5310B	

Client ID: 3301-MW5 Lab ID: C908317-02RE1

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	9.5	JD	10	3.3	10	5	ug/L	EPA 8260B	
Benzene	4.2	JD	10	2.0	10	1	ug/L	EPA 8260B	
Carbon dioxide	458	D	10	7.80	25.0	NE	mg/L	RSK 175	
Chlorobenzene	12	D	10	2.7	10	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	600	D	10	3.6	10	5	ug/L	EPA 8260B	
Total Alkalinity	350	D	2	17	30	NE	mg/L	EPA 310.2	
Vinyl chloride	20	D	10	3.0	10	1	ug/L	EPA 8260B	

Client ID: 3301-MW6 Lab ID: C908317-03

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chemical Oxygen Demand	23		1	3.1	10	NE	mg/L	SM 5220D	
Chloride	18	B	1	0.018	5.0	NE	mg/L	EPA 300.0	J-01
Cobalt - Total	1.87	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Iron - Total	9800		1	31.0	50.0	300	ug/L	EPA 6010C	
Sulfate as SO4	62	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Alkalinity	140		1	8.3	15	NE	mg/L	EPA 310.2	
Total Organic Carbon	7.8		1	0.32	1.0	NE	mg/L	SM18 5310B	

Client ID: 3301-MW7A Lab ID: C908317-04

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	0.47	J	1	0.38	1.0	1	ug/L	EPA 8260B	
Benzene	1.1		1	0.20	1.0	1	ug/L	EPA 8260B	
Chemical Oxygen Demand	35		1	3.1	10	NE	mg/L	SM 5220D	
Chloride	17	B	1	0.018	5.0	NE	mg/L	EPA 300.0	J-01
Chlorobenzene	1.7	J	1	0.27	1.0	3	ug/L	EPA 8260B	

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Client ID: 3301-MW7A **Lab ID: C908317-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Cobalt - Total	1.10	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Iron - Total	117000		1	31.0	50.0	300	ug/L	EPA 6010C	
Nitrate as N	0.039	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.039	J	1	0.021	0.10	NE	mg/L	EPA 353.2	
Sulfate as SO4	3.0	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Organic Carbon	4.4		1	0.32	1.0	NE	mg/L	SM18 5310B	

Client ID: 3301-MW7A **Lab ID: C908317-04RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Total Alkalinity	190	D	2	17	30	NE	mg/L	EPA 310.2	

Client ID: 3301-MW12 **Lab ID: C908317-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	2.0	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	5.5		1	0.38	1.0	1	ug/L	EPA 8260B	
Benzene	3.2		1	0.20	1.0	1	ug/L	EPA 8260B	
Chemical Oxygen Demand	44		1	3.1	10	NE	mg/L	SM 5220D	
Chlorobenzene	3.2		1	0.27	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.3	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	13.6		1	0.580	10.0	10	ug/L	EPA 6010C	
Iron - Total	9290		1	31.0	50.0	300	ug/L	EPA 6010C	
Methane	0.051		1	0.0002	0.001	NE	mg/L	RSK 175	
Nitrate as N	0.22	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.022	J	1	0.021	0.10	NE	mg/L	EPA 353.2	
Sulfate as SO4	48	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Organic Carbon	12		1	0.32	1.0	NE	mg/L	SM18 5310B	

Client ID: 3301-MW12 **Lab ID: C908317-05RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	463	D	10	7.80	25.0	NE	mg/L	RSK 175	
Chloride	200	BD	4	0.072	20	NE	mg/L	EPA 300.0	QB-01

Client ID: 3301-MW13 **Lab ID: C908317-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.95	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.7		1	0.38	1.0	1	ug/L	EPA 8260B	
Benzene	1.9		1	0.20	1.0	1	ug/L	EPA 8260B	
Chemical Oxygen Demand	76		1	3.1	10	NE	mg/L	SM 5220D	
Chlorobenzene	9.3		1	0.27	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	20		1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1550		1	0.580	10.0	10	ug/L	EPA 6010C	
Iron - Total	35200		1	31.0	50.0	300	ug/L	EPA 6010C	
Sulfate as SO4	38	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Organic Carbon	10		1	0.32	1.0	NE	mg/L	SM18 5310B	
Trichloroethene	2.2		1	0.38	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	2.2		1	0.30	1.0	1	ug/L	EPA 8260B	

Client ID: 3301-MW13 **Lab ID: C908317-06RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	120	BD	2	0.036	10	NE	mg/L	EPA 300.0	QB-01
Total Alkalinity	150	D	2	17	30	NE	mg/L	EPA 310.2	

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Client ID: 3301-MW14 **Lab ID: C908317-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chemical Oxygen Demand	16		1	3.1	10	NE	mg/L	SM 5220D	
Chloride	8.6	B	1	0.018	5.0	NE	mg/L	EPA 300.0	J-01
Iron - Total	4720		1	31.0	50.0	300	ug/L	EPA 6010C	
Nitrate as N	0.048	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.058	J	1	0.021	0.10	NE	mg/L	EPA 353.2	
Nitrite as N	0.0097	JB	1	0.0056	0.10	1	mg/L	EPA 353.2	J-01
Sulfate as SO4	15	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Alkalinity	190		1	8.3	15	NE	mg/L	EPA 310.2	
Total Organic Carbon	4.6		1	0.32	1.0	NE	mg/L	SM18 5310B	

Client ID: 3301-MW15 **Lab ID: C908317-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chemical Oxygen Demand	32		1	3.1	10	NE	mg/L	SM 5220D	
Chloride	13	B	1	0.018	5.0	NE	mg/L	EPA 300.0	J-01
Cobalt - Total	9.54	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Iron - Total	20800		1	31.0	50.0	300	ug/L	EPA 6010C	
Nitrate as N	0.031	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.031	J	1	0.021	0.10	NE	mg/L	EPA 353.2	
Sulfate as SO4	13	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Organic Carbon	5.2		1	0.32	1.0	NE	mg/L	SM18 5310B	

Client ID: 3301-MW15 **Lab ID: C908317-08RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.4	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,2-Dichloropropane	4.6		1	0.20	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	0.98	J	1	0.27	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	26		1	0.36	1.0	5	ug/L	EPA 8260B	
Total Alkalinity	300	D	2	17	30	NE	mg/L	EPA 310.2	
trans-1,2-Dichloroethene	1.2	J	1	0.34	1.0	5	ug/L	EPA 8260B	
Vinyl chloride	1.9		1	0.30	1.0	1	ug/L	EPA 8260B	

Client ID: 3301-MW16 **Lab ID: C908317-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chemical Oxygen Demand	51		1	3.1	10	NE	mg/L	SM 5220D	
Chloride	25	B	1	0.018	5.0	NE	mg/L	EPA 300.0	QB-01
Cobalt - Total	1.42	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Iron - Total	48600		1	31.0	50.0	300	ug/L	EPA 6010C	
Methane	4.90		1	0.0002	0.001	NE	mg/L	RSK 175	
Nitrate as N	0.070	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.070	J	1	0.021	0.10	NE	mg/L	EPA 353.2	
Sulfate as SO4	1.7	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Organic Carbon	15		1	0.32	1.0	NE	mg/L	SM18 5310B	

Client ID: 3301-MW16 **Lab ID: C908317-09RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	308	D	10	7.80	25.0	NE	mg/L	RSK 175	
Total Alkalinity	140	D	2	17	30	NE	mg/L	EPA 310.2	

Client ID: 3301-Duplicate **Lab ID: C908317-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes

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Client ID: 3301-Duplicate						Lab ID: C908317-10			
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Cobalt - Total	13.3		1	0.580	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-Duplicate						Lab ID: C908317-10RE1			
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	2.0	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	5.5		1	0.38	1.0	1	ug/L	EPA 8260B	
Benzene	3.0		1	0.20	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	3.3		1	0.27	1.0	3	ug/L	EPA 8260B	
Chloroethane	1.9	J	1	0.30	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.3	J	1	0.36	1.0	5	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

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

Lab Sample ID: C908317-01
Sampled: 07/15/09 15:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 09:07	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/22/09 09:07	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/22/09 09:07	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/22/09 09:07	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/09 09:07	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/22/09 09:07	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/22/09 09:07	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/22/09 09:07	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/09 09:07	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/09 09:07	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/22/09 09:07	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/22/09 09:07	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/22/09 09:07	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/22/09 09:07	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/22/09 09:07	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/22/09 09:07	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/22/09 09:07	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/22/09 09:07	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/22/09 09:07	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/22/09 09:07	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/22/09 09:07	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/22/09 09:07	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/22/09 09:07	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/22/09 09:07	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 09:07	JKG	

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

Lab Sample ID: C908317-01
Sampled: 07/15/09 15:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/22/09 09:07	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/22/09 09:07	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 09:07	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9G21022*	*EPA 8260B*	*07/22/09 09:07*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*87 %*	*68-117*	*9G21022*	*EPA 8260B*	*07/22/09 09:07*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*69-110*	*9G21022*	*EPA 8260B*	*07/22/09 09:07*	*JKG*	

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

Lab Sample ID: C908317-01
Sampled: 07/15/09 15:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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
Cobalt [7440-48-4] ^	**28.2**		ug/L	1	0.580	10.0	10	EPA 6010C	07/21/09 13:21	VLO	
Iron [7439-89-6] ^	**4200**		ug/L	1	31.0	50.0	300	EPA 6010C	07/21/09 13:21	VLO	

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

Lab Sample ID: C908317-01
Sampled: 07/15/09 15:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/22/09 15:41	GPW	B-09
Chemical Oxygen Demand [ECL-0035] ^	3.1	U	mg/L	1	3.1	10	NE	SM 5220D	07/27/09 18:40	GPW	
Chloride [16887-00-6] ^	**27**	B	mg/L	1	0.018	5.0	NE	EPA 300.0	07/20/09 11:14	PEV	QB-01
Nitrate as N [14797-55-8] ^	**0.40**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/20/09 09:41	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.41**		mg/L	1	0.021	0.10	NE	EPA 353.2	07/19/09 15:23	PEV	
Nitrite as N [14797-65-0] ^	**0.0068**	JB	mg/L	1	0.0056	0.10	1	EPA 353.2	07/17/09 11:48	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**45**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/20/09 11:14	PEV	
Sulfide [18496-25-8] ^	0.10	U	mg/L	1	0.10	0.10	1	SM18 4500-S D	07/21/09 12:40	GPW	
Total Alkalinity [471-34-1] ^	8.3	U	mg/L	1	8.3	15	NE	EPA 310.2	07/23/09 08:49	PEV	

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

Lab Sample ID: C908317-01
Sampled: 07/15/09 15:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**0.81**	J	mg/L	1	0.32	1.0	NE	SM18 5310B	07/27/09 14:39	RSA	

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Description: 3301-MW5
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-02
Sampled: 07/16/09 16:30
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	4.0	UD	ug/L	10	4.0	10	5	EPA 8260B	07/22/09 20:07	JKG	
1,1,1-Trichloroethane [71-55-6] ^	2.7	UD	ug/L	10	2.7	10	1	EPA 8260B	07/22/09 20:07	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	3.3	UD	ug/L	10	3.3	10	3	EPA 8260B	07/22/09 20:07	JKG	
1,1,2-Trichloroethane [79-00-5] ^	3.7	UD	ug/L	10	3.7	10	1	EPA 8260B	07/22/09 20:07	JKG	
1,1-Dichloroethane [75-34-3] ^	**9.5**	JD	ug/L	10	3.3	10	5	EPA 8260B	07/22/09 20:07	JKG	
1,1-Dichloroethene [75-35-4] ^	2.4	UD	ug/L	10	2.4	10	5	EPA 8260B	07/22/09 20:07	JKG	
1,2,3-Trichloropropane [96-18-4] ^	5.5	UD	ug/L	10	5.5	10	1	EPA 8260B	07/22/09 20:07	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	4.8	UD	ug/L	10	4.8	10	13	EPA 8260B	07/22/09 20:07	JKG	
1,2-Dibromoethane [106-93-4] ^	4.2	UD	ug/L	10	4.2	10	1	EPA 8260B	07/22/09 20:07	JKG	
1,2-Dichlorobenzene [95-50-1] ^	2.7	UD	ug/L	10	2.7	10	5	EPA 8260B	07/22/09 20:07	JKG	
1,2-Dichloroethane [107-06-2] ^	6.5	UD	ug/L	10	6.5	10	1	EPA 8260B	07/22/09 20:07	JKG	
1,2-Dichloropropane [78-87-5] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	07/22/09 20:07	JKG	
1,4-Dichlorobenzene [106-46-7] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	07/22/09 20:07	JKG	
2-Butanone [78-93-3] ^	10	UD	ug/L	10	10	50	100	EPA 8260B	07/22/09 20:07	JKG	
2-Hexanone [591-78-6] ^	6.9	UD	ug/L	10	6.9	50	50	EPA 8260B	07/22/09 20:07	JKG	
4-Methyl-2-pentanone [108-10-1] ^	11	UD	ug/L	10	11	50	100	EPA 8260B	07/22/09 20:07	JKG	
Acetone [67-64-1] ^	15	UD	ug/L	10	15	50	100	EPA 8260B	07/22/09 20:07	JKG	
Acrylonitrile [107-13-1] ^	21	UD	ug/L	10	21	100	200	EPA 8260B	07/22/09 20:07	JKG	
Benzene [71-43-2] ^	**4.2**	JD	ug/L	10	2.0	10	1	EPA 8260B	07/22/09 20:07	JKG	
Bromochloromethane [74-97-5] ^	4.2	UD	ug/L	10	4.2	10	3	EPA 8260B	07/22/09 20:07	JKG	
Bromodichloromethane [75-27-4] ^	3.7	UD	ug/L	10	3.7	10	1	EPA 8260B	07/22/09 20:07	JKG	
Bromoform [75-25-2] ^	7.1	UD	ug/L	10	7.1	10	3	EPA 8260B	07/22/09 20:07	JKG	
Bromomethane [74-83-9] ^	4.9	UD	ug/L	10	4.9	10	10	EPA 8260B	07/22/09 20:07	JKG	
Carbon disulfide [75-15-0] ^	5.4	UD	ug/L	10	5.4	50	100	EPA 8260B	07/22/09 20:07	JKG	
Carbon tetrachloride [56-23-5] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	07/22/09 20:07	JKG	
Chlorobenzene [108-90-7] ^	**12**	D	ug/L	10	2.7	10	3	EPA 8260B	07/22/09 20:07	JKG	
Chloroethane [75-00-3] ^	3.0	UD	ug/L	10	3.0	10	10	EPA 8260B	07/22/09 20:07	JKG	
Chloroform [67-66-3] ^	2.0	UD	ug/L	10	2.0	10	5	EPA 8260B	07/22/09 20:07	JKG	
Chloromethane [74-87-3] ^	3.4	UD	ug/L	10	3.4	10	1	EPA 8260B	07/22/09 20:07	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**600**	D	ug/L	10	3.6	10	5	EPA 8260B	07/22/09 20:07	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	2.8	UD	ug/L	10	2.8	10	1	EPA 8260B	07/22/09 20:07	JKG	
Dibromochloromethane [124-48-1] ^	3.2	UD	ug/L	10	3.2	10	3	EPA 8260B	07/22/09 20:07	JKG	
Dibromomethane [74-95-3] ^	3.7	UD	ug/L	10	3.7	10	10	EPA 8260B	07/22/09 20:07	JKG	
Ethylbenzene [100-41-4] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	07/22/09 20:07	JKG	
Iodomethane [74-88-4] ^	5.2	UD	ug/L	10	5.2	50	10	EPA 8260B	07/22/09 20:07	JKG	
Methylene chloride [75-09-2] ^	5.3	UD	ug/L	10	5.3	10	1	EPA 8260B	07/22/09 20:07	JKG	
Styrene [100-42-5] ^	2.6	UD	ug/L	10	2.6	10	1	EPA 8260B	07/22/09 20:07	JKG	
Tetrachloroethene [127-18-4] ^	3.6	UD	ug/L	10	3.6	10	1	EPA 8260B	07/22/09 20:07	JKG	
Toluene [108-88-3] ^	2.7	UD	ug/L	10	2.7	10	1	EPA 8260B	07/22/09 20:07	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	3.4	UD	ug/L	10	3.4	10	5	EPA 8260B	07/22/09 20:07	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	07/22/09 20:07	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	5.4	UD	ug/L	10	5.4	10	100	EPA 8260B	07/22/09 20:07	JKG	
Trichloroethene [79-01-6] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	07/22/09 20:07	JKG	
Trichlorofluoromethane [75-69-4] ^	2.8	UD	ug/L	10	2.8	10	1	EPA 8260B	07/22/09 20:07	JKG	
Vinyl acetate [108-05-4] ^	9.8	UD	ug/L	10	9.8	50	50	EPA 8260B	07/22/09 20:07	JKG	
Vinyl chloride [75-01-4] ^	**20**	D	ug/L	10	3.0	10	1	EPA 8260B	07/22/09 20:07	JKG	

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Description: 3301-MW5
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-02
Sampled: 07/16/09 16:30
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	4.0	UD	ug/L	10	4.0	10	5	EPA 8260B	07/22/09 20:07	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*9G22011*	*EPA 8260B*	*07/22/09 20:07*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*9G22011*	*EPA 8260B*	*07/22/09 20:07*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*9G22011*	*EPA 8260B*	*07/22/09 20:07*	*JKG*	

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
Cobalt [7440-48-4] ^	**182**		ug/L	1	0.580	10.0	10	EPA 6010C	07/21/09 13:24	VLO	
Iron [7439-89-6] ^	**125000**		ug/L	1	31.0	50.0	300	EPA 6010C	07/21/09 13:24	VLO	

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Description: 3301-MW5
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-02
Sampled: 07/16/09 16:30
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/22/09 15:41	GPW	B-09
Chemical Oxygen Demand [ECL-0035] ^	**83**		mg/L	1	3.1	10	NE	SM 5220D	07/27/09 18:40	GPW	
Chloride [16887-00-6] ^	**12**	B	mg/L	1	0.018	5.0	NE	EPA 300.0	07/20/09 11:31	PEV	J-01
Nitrate as N [14797-55-8] ^	0.0056	U	mg/L	1	0.0056	0.10	10	EPA 353.2	07/20/09 09:41	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	0.021	U	mg/L	1	0.021	0.10	NE	EPA 353.2	07/19/09 15:30	PEV	
Nitrite as N [14797-65-0] ^	**0.0065**	JB	mg/L	1	0.0056	0.10	1	EPA 353.2	07/17/09 11:51	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**41**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/20/09 11:31	PEV	
Sulfide [18496-25-8] ^	0.10	U	mg/L	1	0.10	0.10	1	SM18 4500-S D	07/21/09 12:40	GPW	
Total Alkalinity [471-34-1] ^	**350**	D	mg/L	2	17	30	NE	EPA 310.2	07/23/09 09:09	PEV	

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**7.0**		mg/L	1	0.32	1.0	NE	SM18 5310B	07/27/09 14:39	RSA	

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**458**	D	mg/L	10	7.80	25.0	NE	RSK 175	07/24/09 10:46	LAC	
Ethane [74-84-0]	0.0004	U	mg/L	1	0.0004	0.002	NE	RSK 175	07/24/09 10:25	LAC	
Ethene [74-85-1]	**0.002**		mg/L	1	0.0004	0.002	NE	RSK 175	07/24/09 10:25	LAC	
Methane [74-82-8]	**0.466**		mg/L	1	0.0002	0.001	NE	RSK 175	07/24/09 10:25	LAC	

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Description: 3301-MW5
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-02
Sampled: 07/16/09 16:30
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	0.071	U	mg/L	1	0.071	0.50	NE	Volatile Fatty Acids	07/21/09 20:19	LAC	
Butyric Acid [107-92-6]	0.16	U	mg/L	1	0.16	0.50	NE	Volatile Fatty Acids	07/21/09 20:19	LAC	
Hexanoic Acid [142-62-1]	0.32	U	mg/L	1	0.32	0.50		Volatile Fatty Acids	07/21/09 20:19	LAC	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	0.098	U	mg/L	1	0.098	0.50		Volatile Fatty Acids	07/21/09 20:19	LAC	
iso-Hexanoic Acid [646-07-1]	0.41	U	mg/L	1	0.41	0.50		Volatile Fatty Acids	07/21/09 20:19	LAC	
iso-Pentanoic Acid [503-74-2]	0.13	U	mg/L	1	0.13	0.50		Volatile Fatty Acids	07/21/09 20:19	LAC	
Lactic Acid [50-21-5]	0.088	U	mg/L	1	0.088	0.50	NE	Volatile Fatty Acids	07/21/09 20:19	LAC	
Pentanoic Acid [109-52-4]	0.18	U	mg/L	1	0.18	0.50		Volatile Fatty Acids	07/21/09 20:19	LAC	
Propionic Acid [79-09-4]	0.054	U	mg/L	1	0.054	0.50	NE	Volatile Fatty Acids	07/21/09 20:19	LAC	
Pyruvic Acid [127-17-3]	0.020	U	mg/L	1	0.020	0.50	NE	Volatile Fatty Acids	07/21/09 20:19	LAC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*35*	*1*	*41.3*	*85 %*	*80-124*	*9G21007*	*Volatile Fatty Acids*	*07/21/09 20:19*	*LAC*	

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Description: 3301-MW6
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-03
Sampled: 07/15/09 16:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 20:40	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/22/09 20:40	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/22/09 20:40	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/22/09 20:40	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/09 20:40	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/22/09 20:40	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/22/09 20:40	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/22/09 20:40	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/09 20:40	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/09 20:40	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/22/09 20:40	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/22/09 20:40	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/22/09 20:40	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/22/09 20:40	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/22/09 20:40	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/22/09 20:40	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/22/09 20:40	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/22/09 20:40	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/22/09 20:40	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/22/09 20:40	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/22/09 20:40	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/22/09 20:40	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/22/09 20:40	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/22/09 20:40	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 20:40	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/22/09 20:40	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/22/09 20:40	JKG	

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Description: 3301-MW6
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-03
Sampled: 07/15/09 16:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 20:40	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*51-122*	*9G22011*	*EPA 8260B*	*07/22/09 20:40*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*9G22011*	*EPA 8260B*	*07/22/09 20:40*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*69-110*	*9G22011*	*EPA 8260B*	*07/22/09 20:40*	*JKG*	

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
Cobalt [7440-48-4] ^	**1.87**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/21/09 13:26	VLO	
Iron [7439-89-6] ^	**9800**		ug/L	1	31.0	50.0	300	EPA 6010C	07/21/09 13:26	VLO	

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Description: 3301-MW6
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-03
Sampled: 07/15/09 16:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/22/09 15:41	GPW	B-09
Chemical Oxygen Demand [ECL-0035] ^	**23**		mg/L	1	3.1	10	NE	SM 5220D	07/27/09 18:40	GPW	
Chloride [16887-00-6] ^	**18**	B	mg/L	1	0.018	5.0	NE	EPA 300.0	07/20/09 11:48	PEV	J-01
Nitrate as N [14797-55-8] ^	0.0056	U	mg/L	1	0.0056	0.10	10	EPA 353.2	07/20/09 09:41	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	0.021	U	mg/L	1	0.021	0.10	NE	EPA 353.2	07/19/09 15:32	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/17/09 11:51	AJB	
Sulfate as SO4 [14808-79-8] ^	**62**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/20/09 11:48	PEV	
Sulfide [18496-25-8] ^	0.10	U	mg/L	1	0.10	0.10	1	SM18 4500-S D	07/21/09 12:40	GPW	
Total Alkalinity [471-34-1] ^	**140**		mg/L	1	8.3	15	NE	EPA 310.2	07/23/09 08:53	PEV	

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Description: 3301-MW6
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-03
Sampled: 07/15/09 16:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**7.8**		mg/L	1	0.32	1.0	NE	SM18 5310B	07/27/09 14:39	RSA	

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

Lab Sample ID: C908317-04
Sampled: 07/16/09 11:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 21:13	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/22/09 21:13	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/22/09 21:13	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/22/09 21:13	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/09 21:13	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/22/09 21:13	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**0.47**	J	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/22/09 21:13	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/22/09 21:13	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/09 21:13	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/09 21:13	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/22/09 21:13	JKG	
Benzene [71-43-2] ^	**1.1**		ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/22/09 21:13	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/22/09 21:13	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/22/09 21:13	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/22/09 21:13	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
Chlorobenzene [108-90-7] ^	**1.7**	J	ug/L	1	0.27	1.0	3	EPA 8260B	07/22/09 21:13	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/22/09 21:13	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/22/09 21:13	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/22/09 21:13	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/22/09 21:13	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/22/09 21:13	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/22/09 21:13	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/22/09 21:13	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/22/09 21:13	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 21:13	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/22/09 21:13	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/22/09 21:13	JKG	

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

Lab Sample ID: C908317-04
Sampled: 07/16/09 11:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 21:13	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9G22011*	*EPA 8260B*	*07/22/09 21:13*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*9G22011*	*EPA 8260B*	*07/22/09 21:13*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*69-110*	*9G22011*	*EPA 8260B*	*07/22/09 21:13*	*JKG*	

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

Lab Sample ID: C908317-04
Sampled: 07/16/09 11:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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
Cobalt [7440-48-4] ^	**1.10**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/21/09 13:29	VLO	
Iron [7439-89-6] ^	**117000**		ug/L	1	31.0	50.0	300	EPA 6010C	07/21/09 13:29	VLO	

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

Lab Sample ID: C908317-04
Sampled: 07/16/09 11:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/22/09 15:41	GPW	B-09
Chemical Oxygen Demand [ECL-0035] ^	**35**		mg/L	1	3.1	10	NE	SM 5220D	07/27/09 18:40	GPW	
Chloride [16887-00-6] ^	**17**	B	mg/L	1	0.018	5.0	NE	EPA 300.0	07/20/09 12:04	PEV	J-01
Nitrate as N [14797-55-8] ^	**0.039**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/20/09 09:41	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.039**	J	mg/L	1	0.021	0.10	NE	EPA 353.2	07/19/09 15:34	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/17/09 11:52	AJB	
Sulfate as SO4 [14808-79-8] ^	**3.0**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/20/09 12:04	PEV	
Sulfide [18496-25-8] ^	0.10	U	mg/L	1	0.10	0.10	1	SM18 4500-S D	07/21/09 12:40	GPW	
Total Alkalinity [471-34-1] ^	**190**	D	mg/L	2	17	30	NE	EPA 310.2	07/23/09 09:10	PEV	

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**4.4**		mg/L	1	0.32	1.0	NE	SM18 5310B	07/27/09 14:39	RSA	

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
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-05
Sampled: 07/16/09 15:35
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 21:46	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/22/09 21:46	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
1,1-Dichloroethane [75-34-3] ^	**2.0**	J	ug/L	1	0.33	1.0	5	EPA 8260B	07/22/09 21:46	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/22/09 21:46	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/09 21:46	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/22/09 21:46	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**5.5**		ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/22/09 21:46	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/22/09 21:46	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/09 21:46	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/09 21:46	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/22/09 21:46	JKG	
Benzene [71-43-2] ^	**3.2**		ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/22/09 21:46	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/22/09 21:46	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/22/09 21:46	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/22/09 21:46	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
Chlorobenzene [108-90-7] ^	**3.2**		ug/L	1	0.27	1.0	3	EPA 8260B	07/22/09 21:46	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/22/09 21:46	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/22/09 21:46	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.3**	J	ug/L	1	0.36	1.0	5	EPA 8260B	07/22/09 21:46	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/22/09 21:46	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/22/09 21:46	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/22/09 21:46	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/22/09 21:46	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/22/09 21:46	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 21:46	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/22/09 21:46	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/22/09 21:46	JKG	

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Description: 3301-MW12
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-05
Sampled: 07/16/09 15:35
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 21:46	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*9G22011*	*EPA 8260B*	*07/22/09 21:46*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*9G22011*	*EPA 8260B*	*07/22/09 21:46*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*69-110*	*9G22011*	*EPA 8260B*	*07/22/09 21:46*	*JKG*	

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Description: 3301-MW12
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-05
Sampled: 07/16/09 15:35
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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
Cobalt [7440-48-4] ^	**13.6**		ug/L	1	0.580	10.0	10	EPA 6010C	07/21/09 13:31	VLO	
Iron [7439-89-6] ^	**9290**		ug/L	1	31.0	50.0	300	EPA 6010C	07/21/09 13:31	VLO	

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Description: 3301-MW12
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-05
Sampled: 07/16/09 15:35
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/22/09 15:41	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**44**		mg/L	1	3.1	10	NE	SM 5220D	07/27/09 18:40	GPW	
Chloride [16887-00-6] ^	**200**	BD	mg/L	4	0.072	20	NE	EPA 300.0	07/20/09 15:24	PEV	QB-01
Nitrate as N [14797-55-8] ^	**0.22**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/20/09 09:41	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.022**	J	mg/L	1	0.021	0.10	NE	EPA 353.2	07/19/09 15:36	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/17/09 11:53	AJB	
Sulfate as SO4 [14808-79-8] ^	**48**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/20/09 12:21	PEV	
Sulfide [18496-25-8] ^	0.10	U	mg/L	1	0.10	0.10	1	SM18 4500-S D	07/21/09 12:40	GPW	
Total Alkalinity [471-34-1] ^	8.3	U	mg/L	1	8.3	15	NE	EPA 310.2	07/23/09 08:55	PEV	

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Description: 3301-MW12
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-05
Sampled: 07/16/09 15:35
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**12**		mg/L	1	0.32	1.0	NE	SM18 5310B	07/27/09 14:39	RSA	

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**463**	D	mg/L	10	7.80	25.0	NE	RSK 175	07/24/09 10:50	LAC	
Ethane [74-84-0]	0.0004	U	mg/L	1	0.0004	0.002	NE	RSK 175	07/24/09 10:29	LAC	
Ethene [74-85-1]	0.0004	U	mg/L	1	0.0004	0.002	NE	RSK 175	07/24/09 10:29	LAC	
Methane [74-82-8]	**0.051**		mg/L	1	0.0002	0.001	NE	RSK 175	07/24/09 10:29	LAC	

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Description: 3301-MW12
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-05
Sampled: 07/16/09 15:35
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	0.071	U	mg/L	1	0.071	0.50	NE	Volatile Fatty Acids	07/21/09 21:22	LAC	
Butyric Acid [107-92-6]	0.16	U	mg/L	1	0.16	0.50	NE	Volatile Fatty Acids	07/21/09 21:22	LAC	
Hexanoic Acid [142-62-1]	0.32	U	mg/L	1	0.32	0.50		Volatile Fatty Acids	07/21/09 21:22	LAC	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	0.098	U	mg/L	1	0.098	0.50		Volatile Fatty Acids	07/21/09 21:22	LAC	
iso-Hexanoic Acid [646-07-1]	0.41	U	mg/L	1	0.41	0.50		Volatile Fatty Acids	07/21/09 21:22	LAC	
iso-Pentanoic Acid [503-74-2]	0.13	U	mg/L	1	0.13	0.50		Volatile Fatty Acids	07/21/09 21:22	LAC	
Lactic Acid [50-21-5]	0.088	U	mg/L	1	0.088	0.50	NE	Volatile Fatty Acids	07/21/09 21:22	LAC	
Pentanoic Acid [109-52-4]	0.18	U	mg/L	1	0.18	0.50		Volatile Fatty Acids	07/21/09 21:22	LAC	
Propionic Acid [79-09-4]	0.054	U	mg/L	1	0.054	0.50	NE	Volatile Fatty Acids	07/21/09 21:22	LAC	
Pyruvic Acid [127-17-3]	0.020	U	mg/L	1	0.020	0.50	NE	Volatile Fatty Acids	07/21/09 21:22	LAC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*38*	*1*	*41.3*	*92 %*	*80-124*	*9G21007*	*Volatile Fatty Acids*	*07/21/09 21:22*	*LAC*	

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
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-06
Sampled: 07/16/09 14:25
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 22:18	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/22/09 22:18	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.95**	J	ug/L	1	0.33	1.0	5	EPA 8260B	07/22/09 22:18	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/22/09 22:18	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/09 22:18	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/22/09 22:18	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**1.7**		ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/22/09 22:18	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/22/09 22:18	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/09 22:18	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/09 22:18	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/22/09 22:18	JKG	
Benzene [71-43-2] ^	**1.9**		ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/22/09 22:18	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/22/09 22:18	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/22/09 22:18	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/22/09 22:18	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
Chlorobenzene [108-90-7] ^	**9.3**		ug/L	1	0.27	1.0	3	EPA 8260B	07/22/09 22:18	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/22/09 22:18	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/22/09 22:18	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**20**		ug/L	1	0.36	1.0	5	EPA 8260B	07/22/09 22:18	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/22/09 22:18	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/22/09 22:18	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/22/09 22:18	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/22/09 22:18	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/22/09 22:18	JKG	
Trichloroethene [79-01-6] ^	**2.2**		ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 22:18	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/22/09 22:18	JKG	
Vinyl chloride [75-01-4] ^	**2.2**		ug/L	1	0.30	1.0	1	EPA 8260B	07/22/09 22:18	JKG	

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Description: 3301-MW13
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-06
Sampled: 07/16/09 14:25
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 22:18	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*9G22011*	*EPA 8260B*	*07/22/09 22:18*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*9G22011*	*EPA 8260B*	*07/22/09 22:18*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*9G22011*	*EPA 8260B*	*07/22/09 22:18*	*JKG*	

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Description: 3301-MW13
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-06
Sampled: 07/16/09 14:25
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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
Cobalt [7440-48-4] ^	**1550**		ug/L	1	0.580	10.0	10	EPA 6010C	07/21/09 13:33	VLO	
Iron [7439-89-6] ^	**35200**		ug/L	1	31.0	50.0	300	EPA 6010C	07/21/09 13:33	VLO	

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Description: 3301-MW13
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-06
Sampled: 07/16/09 14:25
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/22/09 15:41	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**76**		mg/L	1	3.1	10	NE	SM 5220D	07/27/09 18:40	GPW	
Chloride [16887-00-6] ^	**120**	BD	mg/L	2	0.036	10	NE	EPA 300.0	07/20/09 15:41	PEV	QB-01
Nitrate as N [14797-55-8] ^	0.0056	U	mg/L	1	0.0056	0.10	10	EPA 353.2	07/20/09 09:41	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	0.021	U	mg/L	1	0.021	0.10	NE	EPA 353.2	07/19/09 15:38	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/17/09 11:54	AJB	
Sulfate as SO4 [14808-79-8] ^	**38**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/20/09 12:37	PEV	
Sulfide [18496-25-8] ^	0.10	U	mg/L	1	0.10	0.10	1	SM18 4500-S D	07/21/09 12:40	GPW	
Total Alkalinity [471-34-1] ^	**150**	D	mg/L	2	17	30	NE	EPA 310.2	07/23/09 09:11	PEV	

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**10**		mg/L	1	0.32	1.0	NE	SM18 5310B	07/27/09 14:39	RSA	

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Description: 3301-MW14
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-07
Sampled: 07/15/09 17:55
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/09 20:18	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/23/09 20:18	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/23/09 20:18	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/23/09 20:18	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/23/09 20:18	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/23/09 20:18	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/23/09 20:18	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/23/09 20:18	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/23/09 20:18	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/23/09 20:18	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/23/09 20:18	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/23/09 20:18	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/23/09 20:18	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/23/09 20:18	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/23/09 20:18	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/23/09 20:18	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/23/09 20:18	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/23/09 20:18	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/23/09 20:18	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/23/09 20:18	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/23/09 20:18	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/23/09 20:18	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/23/09 20:18	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/23/09 20:18	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/09 20:18	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/23/09 20:18	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/23/09 20:18	JKG	

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Description: 3301-MW14
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-07
Sampled: 07/15/09 17:55
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/09 20:18	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*9G23019*	*EPA 8260B*	*07/23/09 20:18*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*95 %*	*68-117*	*9G23019*	*EPA 8260B*	*07/23/09 20:18*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*69-110*	*9G23019*	*EPA 8260B*	*07/23/09 20:18*	*JKG*	

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
Cobalt [7440-48-4] ^	0.580	U	ug/L	1	0.580	10.0	10	EPA 6010C	07/21/09 13:36	VLO	
Iron [7439-89-6] ^	**4720**		ug/L	1	31.0	50.0	300	EPA 6010C	07/21/09 13:36	VLO	

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Description: 3301-MW14
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-07
Sampled: 07/15/09 17:55
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/22/09 15:41	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**16**		mg/L	1	3.1	10	NE	SM 5220D	07/27/09 18:40	GPW	
Chloride [16887-00-6] ^	**8.6**	B	mg/L	1	0.018	5.0	NE	EPA 300.0	07/20/09 12:54	PEV	J-01
Nitrate as N [14797-55-8] ^	**0.048**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/20/09 09:41	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.058**	J	mg/L	1	0.021	0.10	NE	EPA 353.2	07/19/09 15:42	PEV	
Nitrite as N [14797-65-0] ^	**0.0097**	JB	mg/L	1	0.0056	0.10	1	EPA 353.2	07/17/09 11:56	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**15**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/20/09 12:54	PEV	
Sulfide [18496-25-8] ^	0.10	U	mg/L	1	0.10	0.10	1	SM18 4500-S D	07/21/09 12:40	GPW	
Total Alkalinity [471-34-1] ^	**190**		mg/L	1	8.3	15	NE	EPA 310.2	07/23/09 08:57	PEV	

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Description: 3301-MW14
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-07
Sampled: 07/15/09 17:55
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**4.6**		mg/L	1	0.32	1.0	NE	SM18 5310B	07/27/09 14:39	RSA	

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
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-08
Sampled: 07/16/09 10:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/09 20:48	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/23/09 20:48	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
1,1-Dichloroethane [75-34-3] ^	**1.4**	J	ug/L	1	0.33	1.0	5	EPA 8260B	07/23/09 20:48	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/23/09 20:48	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/23/09 20:48	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/23/09 20:48	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
1,2-Dichloropropane [78-87-5] ^	**4.6**		ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/23/09 20:48	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/23/09 20:48	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/23/09 20:48	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/23/09 20:48	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/23/09 20:48	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/23/09 20:48	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/23/09 20:48	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/23/09 20:48	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/23/09 20:48	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
Chlorobenzene [108-90-7] ^	**0.98**	J	ug/L	1	0.27	1.0	3	EPA 8260B	07/23/09 20:48	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/23/09 20:48	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/23/09 20:48	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**26**		ug/L	1	0.36	1.0	5	EPA 8260B	07/23/09 20:48	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/23/09 20:48	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/23/09 20:48	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/23/09 20:48	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	**1.2**	J	ug/L	1	0.34	1.0	5	EPA 8260B	07/23/09 20:48	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/23/09 20:48	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/09 20:48	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/23/09 20:48	JKG	
Vinyl chloride [75-01-4] ^	**1.9**		ug/L	1	0.30	1.0	1	EPA 8260B	07/23/09 20:48	JKG	

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Description: 3301-MW15
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-08
Sampled: 07/16/09 10:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/09 20:48	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9G23019*	*EPA 8260B*	*07/23/09 20:48*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*95 %*	*68-117*	*9G23019*	*EPA 8260B*	*07/23/09 20:48*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*69-110*	*9G23019*	*EPA 8260B*	*07/23/09 20:48*	*JKG*	

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
Cobalt [7440-48-4] ^	**9.54**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/21/09 13:38	VLO	
Iron [7439-89-6] ^	**20800**		ug/L	1	31.0	50.0	300	EPA 6010C	07/21/09 13:38	VLO	

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Description: 3301-MW15
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-08
Sampled: 07/16/09 10:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/22/09 15:41	GPW	B-09
Chemical Oxygen Demand [ECL-0035] ^	**32**		mg/L	1	3.1	10	NE	SM 5220D	07/27/09 18:40	GPW	
Chloride [16887-00-6] ^	**13**	B	mg/L	1	0.018	5.0	NE	EPA 300.0	07/20/09 13:44	PEV	J-01
Nitrate as N [14797-55-8] ^	**0.031**	J	mg/L	1	0.0056	0.10	10	EPA 3S3.2	07/20/09 09:41	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.031**	J	mg/L	1	0.021	0.10	NE	EPA 353.2	07/19/09 15:44	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/17/09 11:57	AJB	
Sulfate as SO4 [14808-79-8] ^	**13**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/20/09 13:44	PEV	
Sulfide [18496-25-8] ^	0.10	U	mg/L	1	0.10	0.10	1	SM18 4500-S D	07/21/09 12:40	GPW	
Total Alkalinity [471-34-1] ^	**300**	D	mg/L	2	17	30	NE	EPA 310.2	07/23/09 09:12	PEV	

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**5.2**		mg/L	1	0.32	1.0	NE	SM18 5310B	07/27/09 14:39	RSA	

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Description: 3301-MW16
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-09
Sampled: 07/16/09 09:55
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/09 21:18	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/23/09 21:18	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/23/09 21:18	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/23/09 21:18	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/23/09 21:18	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/23/09 21:18	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/23/09 21:18	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/23/09 21:18	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/23/09 21:18	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/23/09 21:18	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/23/09 21:18	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/23/09 21:18	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/23/09 21:18	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/23/09 21:18	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/23/09 21:18	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/23/09 21:18	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/23/09 21:18	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/23/09 21:18	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/23/09 21:18	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/23/09 21:18	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/23/09 21:18	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/23/09 21:18	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/23/09 21:18	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/23/09 21:18	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/09 21:18	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/23/09 21:18	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/23/09 21:18	JKG	

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Description: 3301-MW16
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-09
Sampled: 07/16/09 09:55
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/09 21:18	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9G23019*	*EPA 8260B*	*07/23/09 21:18*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*9G23019*	*EPA 8260B*	*07/23/09 21:18*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*9G23019*	*EPA 8260B*	*07/23/09 21:18*	*JKG*	

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
Cobalt [7440-48-4] ^	**1.42**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/21/09 13:41	VLO	
Iron [7439-89-6] ^	**48600**		ug/L	1	31.0	50.0	300	EPA 6010C	07/21/09 13:41	VLO	

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Description: 3301-MW16
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-09
Sampled: 07/16/09 09:55
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/22/09 15:41	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**51**		mg/L	1	3.1	10	NE	SM 5220D	07/27/09 18:40	GPW	
Chloride [16887-00-6] ^	**25**	B	mg/L	1	0.018	5.0	NE	EPA 300.0	07/20/09 14:01	PEV	QB-01
Nitrate as N [14797-55-8] ^	**0.070**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/20/09 09:41	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.070**	J	mg/L	1	0.021	0.10	NE	EPA 353.2	07/19/09 15:47	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/17/09 11:58	AJB	
Sulfate as SO4 [14808-79-8] ^	**1.7**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/20/09 14:01	PEV	
Sulfide [18496-25-8] ^	0.10	U	mg/L	1	0.10	0.10	1	SM18 4500-S D	07/21/09 12:40	GPW	
Total Alkalinity [471-34-1] ^	**140**	D	mg/L	2	17	30	NE	EPA 310.2	07/23/09 09:12	PEV	

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**15**		mg/L	1	0.32	1.0	NE	SM18 5310B	07/27/09 14:39	RSA	

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**308**	D	mg/L	10	7.80	25.0	NE	RSK 175	07/24/09 10:54	LAC	
Ethane [74-84-0]	0.0004	U	mg/L	1	0.0004	0.002	NE	RSK 175	07/24/09 10:33	LAC	
Ethene [74-85-1]	0.0004	U	mg/L	1	0.0004	0.002	NE	RSK 175	07/24/09 10:33	LAC	
Methane [74-82-8]	**4.90**		mg/L	1	0.0002	0.001	NE	RSK 175	07/24/09 10:33	LAC	

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Description: 3301-MW16
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-09
Sampled: 07/16/09 09:55
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	0.071	U	mg/L	1	0.071	0.50	NE	Volatile Fatty Acids	07/21/09 22:24	LAC	
Butyric Acid [107-92-6]	0.16	U	mg/L	1	0.16	0.50	NE	Volatile Fatty Acids	07/21/09 22:24	LAC	
Hexanoic Acid [142-62-1]	0.32	U	mg/L	1	0.32	0.50		Volatile Fatty Acids	07/21/09 22:24	LAC	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	0.098	U	mg/L	1	0.098	0.50		Volatile Fatty Acids	07/21/09 22:24	LAC	
iso-Hexanoic Acid [646-07-1]	0.41	U	mg/L	1	0.41	0.50		Volatile Fatty Acids	07/21/09 22:24	LAC	
iso-Pentanoic Acid [503-74-2]	0.13	U	mg/L	1	0.13	0.50		Volatile Fatty Acids	07/21/09 22:24	LAC	
Lactic Acid [50-21-5]	0.088	U	mg/L	1	0.088	0.50	NE	Volatile Fatty Acids	07/21/09 22:24	LAC	
Pentanoic Acid [109-52-4]	0.18	U	mg/L	1	0.18	0.50		Volatile Fatty Acids	07/21/09 22:24	LAC	
Propionic Acid [79-09-4]	0.054	U	mg/L	1	0.054	0.50	NE	Volatile Fatty Acids	07/21/09 22:24	LAC	
Pyruvic Acid [127-17-3]	0.020	U	mg/L	1	0.020	0.50	NE	Volatile Fatty Acids	07/21/09 22:24	LAC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*38*	*1*	*41.3*	*92 %*	*80-124*	*9G21007*	*Volatile Fatty Acids*	*07/21/09 22:24*	*LAC*	

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 - July

Lab Sample ID: C908317-10
Sampled: 07/16/09 00:00
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/09 21:48	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/23/09 21:48	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
1,1-Dichloroethane [75-34-3] ^	**2.0**	J	ug/L	1	0.33	1.0	5	EPA 8260B	07/23/09 21:48	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/23/09 21:48	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/23/09 21:48	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/23/09 21:48	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**5.5**		ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/23/09 21:48	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/23/09 21:48	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/23/09 21:48	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/23/09 21:48	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/23/09 21:48	JKG	
Benzene [71-43-2] ^	**3.0**		ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/23/09 21:48	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/23/09 21:48	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/23/09 21:48	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/23/09 21:48	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
Chlorobenzene [108-90-7] ^	**3.3**		ug/L	1	0.27	1.0	3	EPA 8260B	07/23/09 21:48	JKG	
Chloroethane [75-00-3] ^	**1.9**	J	ug/L	1	0.30	1.0	10	EPA 8260B	07/23/09 21:48	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/23/09 21:48	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.3**	J	ug/L	1	0.36	1.0	5	EPA 8260B	07/23/09 21:48	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/23/09 21:48	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/23/09 21:48	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/23/09 21:48	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/23/09 21:48	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/23/09 21:48	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/09 21:48	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/23/09 21:48	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/23/09 21:48	JKG	

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

Lab Sample ID: C908317-10
Sampled: 07/16/09 00:00
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/09 21:48	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*9G23019*	*EPA 8260B*	*07/23/09 21:48*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*9G23019*	*EPA 8260B*	*07/23/09 21:48*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*9G23019*	*EPA 8260B*	*07/23/09 21:48*	*JKG*	

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
Cobalt [7440-48-4] ^	**13.3**		ug/L	1	0.580	10.0	10	EPA 6010C	07/21/09 13:50	VLO	

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
Matrix: Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-11
Sampled: 07/16/09 11:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/09 22:18	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/23/09 22:18	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/23/09 22:18	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/23/09 22:18	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/23/09 22:18	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/23/09 22:18	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/23/09 22:18	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/23/09 22:18	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/23/09 22:18	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/23/09 22:18	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/23/09 22:18	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/23/09 22:18	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/23/09 22:18	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/23/09 22:18	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/23/09 22:18	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/23/09 22:18	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/23/09 22:18	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/23/09 22:18	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/23/09 22:18	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/23/09 22:18	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/23/09 22:18	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/23/09 22:18	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/23/09 22:18	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/23/09 22:18	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/09 22:18	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/23/09 22:18	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/23/09 22:18	JKG	

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Description: 3301-Equipment Blank
Matrix: Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-11
Sampled: 07/16/09 11:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/09 22:18	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*9G23019*	*EPA 8260B*	*07/23/09 22:18*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*68-117*	*9G23019*	*EPA 8260B*	*07/23/09 22:18*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*9G23019*	*EPA 8260B*	*07/23/09 22:18*	*JKG*	

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
Cobalt [7440-48-4] ^	0.580	U	ug/L	1	0.580	10.0	10	EPA 6010C	07/21/09 13:53	VLO	

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Description: 3301-Trip Blank
Matrix: Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-12
Sampled: 07/15/09 15:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 19:36	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/22/09 19:36	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/22/09 19:36	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/22/09 19:36	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/09 19:36	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/22/09 19:36	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/22/09 19:36	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/22/09 19:36	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/09 19:36	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/09 19:36	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/22/09 19:36	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/22/09 19:36	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/22/09 19:36	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/22/09 19:36	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/22/09 19:36	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/22/09 19:36	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/22/09 19:36	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/22/09 19:36	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/22/09 19:36	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/22/09 19:36	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/22/09 19:36	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/22/09 19:36	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/22/09 19:36	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/22/09 19:36	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/22/09 19:36	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/22/09 19:36	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/22/09 19:36	JKG	

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Description: 3301-Trip Blank
Matrix: Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C908317-12
Sampled: 07/15/09 15:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/17/09 08:25
Work Order: C908317

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/22/09 19:36	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*9G22011*	*EPA 8260B*	*07/22/09 19:36*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*9G22011*	*EPA 8260B*	*07/22/09 19:36*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*9G22011*	*EPA 8260B*	*07/22/09 19:36*	*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 9G21022 - EPA 5030B_MS

Blank (9G21022-BLK1) Prepared: 07/21/2009 13:46 Analyzed: 07/22/2009 03:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*91*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G21022 - EPA 5030B_MS

Blank (9G21022-BLK1) Continued Prepared: 07/21/2009 13:46 Analyzed: 07/22/2009 03:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*87*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*91*	*69-110*			

LCS (9G21022-BS1) Prepared: 07/21/2009 13:46 Analyzed: 07/22/2009 03:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		120	75-133			
Benzene	23		1.0	ug/L	20.0		114	81-134			
Chlorobenzene	24		1.0	ug/L	20.0		121	83-117			QL-02
Toluene	23		1.0	ug/L	20.0		115	71-118			
Trichloroethene	24		1.0	ug/L	20.0		120	75-115			QL-02

Matrix Spike (9G21022-MS1) Prepared: 07/21/2009 13:46 Analyzed: 07/22/2009 04:04

Source: C906084-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.24 U	124	75-133			
Benzene	23		1.0	ug/L	20.0	0.20 U	117	81-134			
Chlorobenzene	24		1.0	ug/L	20.0	0.27 U	119	83-117			QM-07
Toluene	23		1.0	ug/L	20.0	0.27 U	116	71-118			
Trichloroethene	24		1.0	ug/L	20.0	0.38 U	122	75-115			QM-07

Matrix Spike Dup (9G21022-MSD1) Prepared: 07/21/2009 13:46 Analyzed: 07/22/2009 04:34

Source: C906084-03

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	0.24 U	111	75-133	11	20	
Benzene	20		1.0	ug/L	20.0	0.20 U	102	81-134	13	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	105	83-117	13	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	102	71-118	13	17	
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	105	75-115	15	18	

Batch 9G22011 - EPA 5030B_MS

Blank (9G22011-BLK1) Prepared: 07/22/2009 10:26 Analyzed: 07/22/2009 12:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G22011 - EPA 5030B_MS

Blank (9G22011-BLK1) Continued Prepared: 07/22/2009 10:26 Analyzed: 07/22/2009 12:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*68-117*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*91*	*69-110*			

LCS (9G22011-BS1) Prepared: 07/22/2009 10:26 Analyzed: 07/22/2009 13:22

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		98	75-133			
Benzene	18		1.0	ug/L	20.0		90	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		96	83-117			
Toluene	19		1.0	ug/L	20.0		93	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G22011 - EPA 5030B_MS

LCS (9G22011-BS1) Continued Prepared: 07/22/2009 10:26 Analyzed: 07/22/2009 13:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	19		1.0	ug/L	20.0		96	75-115			

Matrix Spike (9G22011-MS1) Prepared: 07/22/2009 10:26 Analyzed: 07/22/2009 13:55

Source: C908471-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	110	75-133			
Benzene	21		1.0	ug/L	20.0	0.20 U	104	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	107	83-117			
Toluene	21		1.0	ug/L	20.0	0.27 U	105	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	105	75-115			

Matrix Spike Dup (9G22011-MSD1) Prepared: 07/22/2009 10:26 Analyzed: 07/22/2009 14:32

Source: C908471-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	109	75-133	0.7	20	
Benzene	20		1.0	ug/L	20.0	0.20 U	101	81-134	3	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	104	83-117	3	16	
Toluene	21		1.0	ug/L	20.0	0.27 U	105	71-118	0.2	17	
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	105	75-115	0.3	18	

Batch 9G23019 - EPA 5030B_MS

Blank (9G23019-BLK1) Prepared: 07/23/2009 12:36 Analyzed: 07/23/2009 17:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G23019 - EPA 5030B_MS

Blank (9G23019-BLK1) Continued Prepared: 07/23/2009 12:36 Analyzed: 07/23/2009 17:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*91*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*69-110*			

LCS (9G23019-BS1) Prepared: 07/23/2009 12:36 Analyzed: 07/23/2009 17:49

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		112	75-133			
Benzene	20		1.0	ug/L	20.0		100	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Toluene	20		1.0	ug/L	20.0		99	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	75-115			

Matrix Spike (9G23019-MS1) Prepared: 07/23/2009 12:36 Analyzed: 07/23/2009 18:19

Source: C906041-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.24 U	124	75-133			
Benzene	23		1.0	ug/L	20.0	0.20 U	114	81-134			
Chlorobenzene	22		1.0	ug/L	20.0	0.27 U	111	83-117			
Toluene	22		1.0	ug/L	20.0	0.27 U	110	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	111	75-115			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G23019 - EPA 5030B_MS

Matrix Spike Dup (9G23019-MSD1) Prepared: 07/23/2009 12:36 Analyzed: 07/23/2009 18:49

Source: C906041-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.24 U	126	75-133	0.9	20	
Benzene	20		1.0	ug/L	20.0	0.20 U	99	81-134	14	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	100	83-117	10	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	101	71-118	9	17	
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	108	75-115	2	18	

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

Batch 9G17023 - EPA 3005A

Blank (9G17023-BLK1) Prepared: 07/17/2009 12:45 Analyzed: 07/21/2009 12:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cobalt	0.580	U	10.0	ug/L							
Iron	31.0	U	50.0	ug/L							

LCS (9G17023-BS1) Prepared: 07/17/2009 12:45 Analyzed: 07/21/2009 12:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cobalt	1140		10.0	ug/L	1000		114	80-120			
Iron	11600		50.0	ug/L	10000		116	80-120			

Matrix Spike (9G17023-MS1) Prepared: 07/17/2009 12:45 Analyzed: 07/21/2009 13:02

Source: C907849-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cobalt	1070		10.0	ug/L	1000	4.12	106	75-125			
Iron	58300		50.0	ug/L	10000	49500	88	75-125			

Matrix Spike Dup (9G17023-MSD1) Prepared: 07/17/2009 12:45 Analyzed: 07/21/2009 13:05

Source: C907849-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cobalt	1060		10.0	ug/L	1000	4.12	105	75-125	0.6	20	
Iron	57500		50.0	ug/L	10000	49500	80	75-125	1	20	

Post Spike (9G17023-PS1) Prepared: 07/17/2009 12:45 Analyzed: 07/21/2009 13:07

Source: C907849-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cobalt	1.02		0.0100	mg/L	1.00	0.00412	101	80-120			
Iron	55.6		0.0500	mg/L	10.0	49.5	61	80-120			

Classical Chemistry Parameters - Quality Control

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G17017 - NO PREP

Blank (9G17017-BLK1) Prepared: 07/17/2009 10:56 Analyzed: 07/17/2009 11:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	**0.0063**	**J**	0.10	mg/L							

LCS (9G17017-BS1) Prepared: 07/17/2009 10:56 Analyzed: 07/17/2009 11:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0	B	0.10	mg/L	1.00		102	80-120			

Matrix Spike (9G17017-MS1) Prepared: 07/17/2009 10:56 Analyzed: 07/17/2009 11:49

Source: C908317-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0	B	0.10	mg/L	1.00	0.0068	103	80-120			

Matrix Spike Dup (9G17017-MSD1) Prepared: 07/17/2009 10:56 Analyzed: 07/17/2009 11:50

Source: C908317-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.1	B	0.10	mg/L	1.00	0.0068	105	80-120	2	25	

Batch 9G17019 - NO PREP

Blank (9G17019-BLK1) Prepared: 07/17/2009 12:58 Analyzed: 07/22/2009 15:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L							

LCS (9G17019-BS1) Prepared: 07/17/2009 12:58 Analyzed: 07/22/2009 15:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	190		2.0	mg/L	198		94	85-115			

Duplicate (9G17019-DUP1) Prepared: 07/17/2009 12:58 Analyzed: 07/22/2009 15:41

Source: C908317-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L		2.0 U				25	B-09

Batch 9G19005 - NO PREP

Blank (9G19005-BLK1) Prepared: 07/19/2009 07:37 Analyzed: 07/20/2009 07:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	**2.2**	**J**	5.0	mg/L							
Sulfate as SO4	0.078	U	5.0	mg/L							

LCS (9G19005-BS1) Prepared: 07/19/2009 07:37 Analyzed: 07/20/2009 07:21

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G19005 - NO PREP

LCS (9G19005-BS1) Continued Prepared: 07/19/2009 07:37 Analyzed: 07/20/2009 07:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	46	B	5.0	mg/L	50.0		91	90-110			
Sulfate as SO4	47		5.0	mg/L	50.0		94	90-110			

Matrix Spike (9G19005-MS1) Prepared: 07/19/2009 07:37 Analyzed: 07/20/2009 07:38

Source: C906086-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	56	B	5.0	mg/L	50.0	9.4	94	80-120			
Sulfate as SO4	49		5.0	mg/L	50.0	0.078 U	97	80-120			

Matrix Spike Dup (9G19005-MSD1) Prepared: 07/19/2009 07:37 Analyzed: 07/20/2009 07:54

Source: C906086-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	57	B	5.0	mg/L	50.0	9.4	95	80-120	0.9	15	
Sulfate as SO4	49		5.0	mg/L	50.0	0.078 U	98	80-120	1	15	

Batch 9G19007 - NO PREP

Blank (9G19007-BLK1) Prepared: 07/19/2009 10:30 Analyzed: 07/19/2009 15:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.021	U	0.10	mg/L							

LCS (9G19007-BS1) Prepared: 07/19/2009 10:30 Analyzed: 07/19/2009 15:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.25		101	80-120			

Matrix Spike (9G19007-MS1) Prepared: 07/19/2009 10:30 Analyzed: 07/19/2009 15:25

Source: C908317-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.9		0.10	mg/L	1.28	0.41	113	80-120			

Matrix Spike Dup (9G19007-MSD1) Prepared: 07/19/2009 10:30 Analyzed: 07/19/2009 15:27

Source: C908317-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.7		0.10	mg/L	1.28	0.41	104	80-120	6	25	

Batch 9G21016 - NO PREP

Blank (9G21016-BLK1) Prepared & Analyzed: 07/21/2009 12:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G21016 - NO PREP

Blank (9G21016-BLK1) Continued Prepared & Analyzed: 07/21/2009 12:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.10	U	0.10	mg/L							

LCS (9G21016-BS1) Prepared & Analyzed: 07/21/2009 12:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.42		0.10	mg/L	0.401		104	80-120			

Matrix Spike (9G21016-MS1) Prepared & Analyzed: 07/21/2009 12:40

Source: C907683-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.35		0.10	mg/L	0.401	-0.02	92	80-120			

Matrix Spike Dup (9G21016-MSD1) Prepared & Analyzed: 07/21/2009 12:40

Source: C907683-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.37		0.10	mg/L	0.401	-0.02	98	80-120	6	25	

Batch 9G23007 - NO PREP

Blank (9G23007-BLK1) Prepared: 07/23/2009 07:44 Analyzed: 07/23/2009 08:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	8.3	U	15	mg/L							

LCS (9G23007-BS1) Prepared: 07/23/2009 07:44 Analyzed: 07/23/2009 08:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100		105	80-120			

Matrix Spike (9G23007-MS1) Prepared: 07/23/2009 07:44 Analyzed: 07/23/2009 08:50

Source: C908317-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	92		15	mg/L	100	-0.3	92	80-120			

Matrix Spike Dup (9G23007-MSD1) Prepared: 07/23/2009 07:44 Analyzed: 07/23/2009 08:51

Source: C908317-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	94		15	mg/L	100	-0.3	95	80-120	3	25	

Batch 9G27021 - NO PREP

Blank (9G27021-BLK1) Prepared: 07/27/2009 14:00 Analyzed: 07/27/2009 18:40

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G27021 - NO PREP

Blank (9G27021-BLK1) Continued Prepared: 07/27/2009 14:00 Analyzed: 07/27/2009 18:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	3.1	U	10	mg/L							

LCS (9G27021-BS1) Prepared: 07/27/2009 14:00 Analyzed: 07/27/2009 18:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	510		10	mg/L	500		102	90-110			

Matrix Spike (9G27021-MS1) Prepared: 07/27/2009 14:00 Analyzed: 07/27/2009 18:40

Source: C906085-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	1000	E	10	mg/L	500	560	93	90-110			QM-02

Matrix Spike Dup (9G27021-MSD1) Prepared: 07/27/2009 14:00 Analyzed: 07/27/2009 18:40

Source: C906085-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	1000	E	10	mg/L	500	560	96	90-110	1	10	QM-02

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 9G24001 - NO PREP ANALYTIX

Blank (9G24001-BLK1) Prepared: 07/24/2009 09:19 Analyzed: 07/24/2009 09:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	0.780	U	2.50	mg/L							
Ethane	0.0004	U	0.002	mg/L							
Ethene	0.0004	U	0.002	mg/L							
Methane	0.0002	U	0.001	mg/L							

LCS (9G24001-BS1) Prepared: 07/24/2009 09:19 Analyzed: 07/24/2009 10:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	20.0		2.50	mg/L	26.3		76	71-119			
Ethane	0.180		0.002	mg/L	0.179		100	75-123			
Ethene	0.171		0.002	mg/L	0.167		102	72-131			
Methane	0.0945		0.001	mg/L	0.0958		99	74-116			

Matrix Spike (9G24001-MS1) Prepared: 07/24/2009 09:19 Analyzed: 07/24/2009 10:09

Source: B903431-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	89.4		2.50	mg/L	26.3	64.6	94	71-119			
Ethane	0.179		0.002	mg/L	0.179	0.0004 U	100	75-123			
Ethene	0.163		0.002	mg/L	0.167	0.0004 U	97	72-131			

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 9G24001 - NO PREP ANALYTIX

Matrix Spike (9G24001-MS1) Continued Prepared: 07/24/2009 09:19 Analyzed: 07/24/2009 10:09

Source: B903431-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	0.0969		0.001	mg/L	0.0958	0.00132	100	74-116			

Matrix Spike Dup (9G24001-MSD1) Prepared: 07/24/2009 09:19 Analyzed: 07/24/2009 10:13

Source: B903431-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	89.9		2.50	mg/L	26.3	64.6	96	71-119	0.5	10	
Ethane	0.182		0.002	mg/L	0.179	0.0004 U	102	75-123	2	14	
Ethene	0.167		0.002	mg/L	0.167	0.0004 U	100	72-131	2	12	
Methane	0.0983		0.001	mg/L	0.0958	0.00132	101	74-116	1	18	

Volatile Fatty Acids by HPLC - Quality Control

Batch 9G21007 - NO PREP ANALYTIX

Blank (9G21007-BLK1) Prepared: 07/21/2009 11:24 Analyzed: 07/21/2009 15:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	0.071	U	0.50	mg/L							
Butyric Acid	0.16	U	0.50	mg/L							
Hexanoic Acid	0.32	U	0.50	mg/L							
HIBA (2-Hydroxyisobutyric Acid)	0.098	U	0.50	mg/L							
iso-Hexanoic Acid	0.41	U	0.50	mg/L							
iso-Pentanoic Acid	0.13	U	0.50	mg/L							
Lactic Acid	0.088	U	0.50	mg/L							
Pentanoic Acid	0.18	U	0.50	mg/L							
Propionic Acid	0.054	U	0.50	mg/L							
Pyruvic Acid	0.020	U	0.50	mg/L							
Surrogate: Trimethylacetic acid	*40*			*mg/L*	*41.3*		*97*	*80-124*			

LCS (9G21007-BS1) Prepared: 07/21/2009 11:24 Analyzed: 07/21/2009 16:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	16		0.50	mg/L	20.0		79	73-125			
Butyric Acid	17		0.50	mg/L	20.0		83	80-120			
Hexanoic Acid	20		0.50	mg/L	20.0		98	78-120			
HIBA (2-Hydroxyisobutyric Acid)	17		0.50	mg/L	20.0		87	80-120			
iso-Hexanoic Acid	19		0.50	mg/L	20.0		95	80-120			
iso-Pentanoic Acid	16		0.50	mg/L	20.0		78	78-120			
Lactic Acid	17		0.50	mg/L	20.0		86	56-154			
Pentanoic Acid	16		0.50	mg/L	20.0		79	77-120			
Propionic Acid	17		0.50	mg/L	20.0		83	80-120			
Pyruvic Acid	11		0.50	mg/L	20.0		57	37-142			
Surrogate: Trimethylacetic acid	*36*			*mg/L*	*41.3*		*86*	*80-124*			

Matrix Spike (9G21007-MS1) Prepared: 07/21/2009 11:24 Analyzed: 07/21/2009 17:12

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 9G21007 - NO PREP ANALYTIX

Matrix Spike (9G21007-MS1) Continued Prepared: 07/21/2009 11:24 Analyzed: 07/21/2009 17:12

Source: B903431-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	18		0.50	mg/L	20.0	0.071 U	89	73-125			
Butyric Acid	17		0.50	mg/L	20.0	0.16 U	86	80-120			
Hexanoic Acid	18		0.50	mg/L	20.0	0.32 U	92	78-120			
HIBA (2-Hydroxyisobutyric Acid)	16		0.50	mg/L	20.0	0.098 U	80	80-120			
Iso-Hexanoic Acid	18		0.50	mg/L	20.0	0.41 U	90	80-120			
Iso-Pentanoic Acid	18		0.50	mg/L	20.0	0.13 U	90	78-120			
Lactic Acid	18		0.50	mg/L	20.0	0.088 U	92	56-154			
Pentanoic Acid	16		0.50	mg/L	20.0	0.18 U	81	77-120			
Propionic Acid	17		0.50	mg/L	20.0	0.054 U	85	80-120			
Pyruvic Acid	11		0.50	mg/L	20.0	0.020 U	57	37-142			
Surrogate: Trimethylacetic acid	*38*			*mg/L*	*41.3*		*91*	*80-124*			

Matrix Spike Dup (9G21007-MSD1) Prepared: 07/21/2009 11:24 Analyzed: 07/21/2009 18:14

Source: B903431-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	17		0.50	mg/L	20.0	0.071 U	84	73-125	7	10	
Butyric Acid	17		0.50	mg/L	20.0	0.16 U	85	80-120	0.8	10	
Hexanoic Acid	20		0.50	mg/L	20.0	0.32 U	98	78-120	6	34	
HIBA (2-Hydroxyisobutyric Acid)	16		0.50	mg/L	20.0	0.098 U	82	80-120	2	15	
Iso-Hexanoic Acid	19		0.50	mg/L	20.0	0.41 U	95	80-120	4	15	
Iso-Pentanoic Acid	18		0.50	mg/L	20.0	0.13 U	89	78-120	1	15	
Lactic Acid	18		0.50	mg/L	20.0	0.088 U	90	56-154	2	19	
Pentanoic Acid	16		0.50	mg/L	20.0	0.18 U	81	77-120	0.8	10	
Propionic Acid	17		0.50	mg/L	20.0	0.054 U	83	80-120	2	10	
Pyruvic Acid	12		0.50	mg/L	20.0	0.020 U	58	37-142	0.6	10	
Surrogate: Trimethylacetic acid	*37*			*mg/L*	*41.3*		*91*	*80-124*			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G27019 - NO PREP

Blank (9G27019-BLK1) Prepared: 07/27/2009 10:42 Analyzed: 07/27/2009 14:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	0.32	U	1.0	mg/L							

LCS (9G27019-BS1) Prepared: 07/27/2009 10:42 Analyzed: 07/27/2009 14:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	43		1.0	mg/L	41.6		104	85-115			

Matrix Spike (9G27019-MS1) Prepared: 07/27/2009 10:42 Analyzed: 07/27/2009 14:39

Source: A903609-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G27019 - NO PREP

Matrix Spike (9G27019-MS1) Continued Prepared: 07/27/2009 10:42 Analyzed: 07/27/2009 14:39

Source: A903609-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	45		1.0	mg/L	40.0	2.8	105	85-115			

Matrix Spike Dup (9G27019-MSD1) Prepared: 07/27/2009 10:42 Analyzed: 07/27/2009 14:39

Source: A903609-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	45		1.0	mg/L	40.0	2.8	106	85-115	1	21	

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.
B-09	Dissolved oxygen depletion data is consistent with samples exhibiting seed toxicity
J-01	Result is estimated due to positive results in the associated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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Cary, NC 27511
(919) 467-3010 Fax (919) 467-3515

Page 1 of 4

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-07-238B
Address: 3201 Spring Forest Road	Project Name/Desc: Edgecombe County Landfill - July
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Michelle Logut
Sampler(s) Name, Affiliation (Print): MICHELLE LOGUT, S&ME; BOB BRYANT, S&ME	Bill(s) Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: ~~C907683~~

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Sulfate 300	Sulfide SM4500-S D	TOC 415.1								Sample Comments
	MW-3B	7/15/09	15:50	GRAB	GW	11	X	X	X								C908319
	~~MW-4~~				~~GW~~	~~16~~	~~X~~	~~X~~	~~X~~								
	MW-5	7/16/09	16:30	GRAB	GW	16	X	X	X								
	MW-6	7/15/09	16:50	↓	GW	11	X	X	X								
	MW-7A	7/16/09	11:50	↓	GW	11	X	X	X								
	~~MW-9~~				~~GW~~	~~11~~	~~X~~	~~X~~	~~X~~								
	MW-12	7/16/09	15:35	GRAB	GW	16	X	X	X								
	MW-13	↓	14:25	↓	GW	11	X	X	X								
	MW-14	7/15/09	17:55	↓	GW	11	X	X	X								
	MW-15	7/16/09	10:50	↓	GW	11	X	X	X								
	MW-16	7/16/09	09:55	↓	GW	16	X	X	X								
	~~Upstream (GW-1)~~				~~GW~~	~~4~~											

<-- Total # of Containers

Sample ID Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
JK	7-2-09	[signature]	7/17/09 08:25	[signature]	7/17/09 8:25
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Coolers & Temps on Receipt: C-61 1.8°C C-641 2.2°C C-265 C-425 2.3°C C-487		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: H-Ice N-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.

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Jacksonville, FL 32216-0963
(904) 296-3007 Fax (904) 296-6210

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

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-07-238B
Address: 3201 Spring Forest Road	Project Name/Site: Edgecombe County Landfill - July
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Michelle Logut
Sample(s) Name, Affiliation (Print): MICHELLE LOGUT, S&ME; BRIAN BRYANT, S&ME	Billing Contact: Accounts Payable
Sample(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note - Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due __/__/__

Lab Workorder: ~~G907683~~

Preservation (Use Codes) (Use the 34 decimals)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Alkalinity, TDS, Chloride, Sulfate, Nitrate as N 353.2	BOD SM5210B	Co	Co,Fe	COD SM5220D	Fatty Acids	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sample Comments
	MW-3B	7/15/09	15:50	GRAB	GW	11	X	X	X		X	X		X	X		C908317
	~~MW-4~~				GW	16	X	X	X		X	X	X	X	X	X	
	MW-5	7/16/09	16:30	GRAB	GW	18	X	X	X		X	X	X	X	X	X	
	MW-6	7/15/09	16:50	↓	GW	11	X	X	X		X	X		X	X		
	MW-7A	7/16/09	11:50	↓	GW	11	X	X	X		X	X		X	X		
	~~MW-9~~				GW	11	X	X	X		X	X		X	X		
	MW-12	7/16/09	15:35	GRAB	GW	18	X	X	X		X	X	X	X	X	X	
	MW-13	↓	14:35	↓	GW	11	X	X	X		X	X		X	X		
	MW-14	7/15/09	17:55	↓	GW	11	X	X	X		X	X		X	X		
	MW-15	7/16/09	10:50	↓	GW	11	X	X	X		X	X		X	X		
	MW-16	↓	09:55	↓	GW	16	X	X	X		X	X	X	X	X	X	
	~~Trip Blank (TSM-1)~~				GW	1	X			X							

⇐ Total # of Containers

Sample Kit Prepared By: JK	Date/Time: 7.2.09	Relinquished By:	Date/Time:	Received By: [signature]	Date/Time: 7.17.09 8:25
Comments:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler # & Temp on Receipt: C-61 1.8°C C-641 0.2°C C-265 C-425 0.3°C C-487		Condition Upon Receipt: X Acceptable	Unacceptable

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: Use 1 HCl 2 HNO3 3 H2SO4 4 NaOH 5 NaOH/ZnAc 6 Other (detail in comments)

Note: All services rendered by ENCO Labs are in accordance with the terms and conditions stated on the reverse of this form, unless prior written agreement exists.

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Cary, NC 27511
(919) 467-3363 Fax (919) 467-3696

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Client Name: S&ME, Inc. (SMC01)	Project Number: 1054-07-2389
Address: 3201 Spring Forest Road	Project Name/Site: Edgecombe County Landfill - July
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 / Fax: (919) 876-3958	Reporting Contact: Michelle Logut
Sampled By (Name, Affiliation, Phone): Robert Taylor S&ME Inc. Michelle Logut, S&ME Inc.	Billing Contact: Accounts Payable
Sampled Signature: Robert Taylor, Michelle J. Logut	Fax Fax # (if required):

Requested Analyses: Sulfate 300; Sulfide SM4500-S D; TOC 415.1

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

Lab Workorder: ~~G907683~~

Preservation (See Codes in Comments if necessary)

Item #	Sample ID (Field Best Guess)	Collection Date	Collection Time	Comp / Grab	Matrix (GW/SW/SS)	Total # of Containers	Sulfate 300	Sulfide SM4500-S D	TOC 415.1	Sample Comments
	~~Downstream (GW-2)~~				GW	1				C908317
	~~Duplicate~~				GW	16	X	X	X	
	~~Equipment Blank~~				WA	16	X	X	X	
	Trip Blank				WA	2				

← Total # of Containers

Sample(s) Prepared By: JK	Date/Time: 7-2-09	Relinquished By: Michelle J Logut	Date/Time: 7/17/09 08:25	Received By: [signature]	Date/Time: 7/17/09 8:25
Comments:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:

Cooler Pick Temperature Receipt: C-61 1.8°C C-64 1.0°C C-265 C-425 2.3°C C-487

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: Use N-HCl N-HNO3 N-H2SO4 ND-NaOH O-Other (detail in comments)

Note: Alterations permitted to ENCO Labs only in accordance with the terms and conditions [illegible]

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4810 Executive Park Court, Suite 211 Jacksonville, FL 32244-5860 (904) 296-3007 Fax (904) 296-6210
1725-B Woodlands Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Client Name: S&ME, Inc. (SV001)	Project Number: 1064-07-238B
Address: 3201 Spring Forest Road	Project Name/Date: Edgecombe County Landfill - July
City/St/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Michelle Logut
Sampler(s) Name: M. LOGUT SAME; BOB PEYANT SAME	Billing Contact: Accounts Payable
Sampler(s) Signature:	Service Order (if required):

Requested Analyses: 8260B Appendix 1; Alkalinity 310.2, Chloride SM4500-Cl B, Sulfate EPA 375.2; BOD SM5210B; Co; Co,Fe; COD SM5220D; Fatty Acids; Nitrate Calc 353.2; NOX 353.2; RSK 175 + CO2

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

Lab Workorder: ~~C907683~~

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Sampling Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Alkalinity 310.2, Chloride SM4500-Cl B, Sulfate EPA 375.2	BOD SM5210B	Co	Co,Fe	COD SM5220D	Fatty Acids	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sample Comments
	~~Downstream (SW-2)~~				~~GW~~	~~4~~	~~X~~			~~X~~							C908317
	Duplicate	7/16/09	–	GRAB	GW	~~1~~ 4	X	~~X~~	~~X~~	X	~~X~~	~~X~~	~~X~~	~~X~~	X	~~X~~	
	Equipment Blank	7/16/09	11:50	↓	WA	~~1~~ 4	X	~~X~~	~~X~~	X	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
	Trip Blank				WA	2	X										

<- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
JK	7-2-09	Michelle Y. Logut	7/16/09 08:35	[illegible]	7/17/09 8:00
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Temperature Upon Receipt: C-16 / 1.5 C-641 / 2.2 C-265 C-425 / 2.3 C-487

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix: GW-Groundwater SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All complaints, questions or concerns in accordance with contracts and conditions listed on the reverse of this form, unless prior written agreements exist.

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APPENDIX II

[COMPACT DISK WITH ELECTRONIC COPY OF TABLE 1 (.XLS) AND ELECTRONIC COPY OF THIS REPORT (.PDF)]

APPENDIX III

(GROUNDWATER VELOCITY CALCULATIONS)

S&ME

JOB NO.	1054-07-238B
SHEET NO.	1 of 1
DATE	9/9/2009
COMPUTED BY	MLL
CHECKED BY	

JOB NAME Edgecombe County Landfill
SUBJECT Hydraulic Gradient

PURPOSE:

To determine the average true hydraulic gradient.

GIVEN:

Well	GW Elev
MW-3B	70.62
MW-5	40.78
MW-7A	52.87
P-1	65.01

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.

$$i_1 = \frac{\text{MW-3B} - \text{MW-5}}{L_1} = \frac{70.62 - 40.78}{1{,}485} = \mathbf{0.02009} \quad \text{ft/ft}$$

Use Elevation of Groundwater at MW-7A to establish 52.87' elevation between MW-3B and MW-5.

$$\frac{\text{MW-3B - MW-7A}}{\text{gradient (MW-3B and MW-5)}} = \frac{70.62 - 52.87}{0.02009} = 883.34 \quad \text{ft}$$

Draw line from MW-7A to point located 883.34 feet from MW-3B to MW-5.

Measure new distance between MW-3B and MW-5 perpendicular to line plotted for 52.87' contour. Recalculate Gradient

$$i_1 = \frac{\text{MW-3B} - \text{MW-5}}{\text{New } L_1} = \frac{70.62 - 40.78}{1{,}475} = \mathbf{0.02023} \quad \text{ft/ft}$$

True Hydraulic Gradient, i_1 = 0.02023 ft/ft

$$i_2 = \frac{\text{P-1} - \text{MW-5}}{L_2} = \frac{65.01 - 40.78}{1{,}320} = \mathbf{0.01836} \quad \text{ft/ft}$$

Use Elevation of Groundwater at MW-7A to establish 52.87' elevation between P-1 and MW-5.

$$\frac{\text{P-1 - MW-7A}}{\text{gradient (MW-3B and MW-5)}} = \frac{65.01 - 52.87}{0.018356} = 661.36 \quad \text{ft}$$

Draw line from MW-7A to point located 661.36 feet from P-1 to MW-5.

Measure new distance between P-1 and MW-5 perpendicular to line plotted for 54.49' contour. Recalculate Gradient.

$$i_2 = \frac{\text{P-1} - \text{MW-5}}{\text{New } L_2} = \frac{65.01 - 40.78}{1{,}200} = \mathbf{0.02019} \quad \text{ft/ft}$$

True Hydraulic Gradient, i_2 = 0.02019 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.**

S&ME

JOB NO.	1054-07-238B
SHEET NO.	1 of 1
DATE	9/9/2009
COMPUTED BY	MLL
CHECKED BY	

JOB NAME Edgecombe County Landfill

SUBJECT Velocity Calculation

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} (MW-3B to MW-5):	**0.0202**	**ft/ft**
n:	**15%**	

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

$$V = \frac{61.561\ ft/yr * 0.0202\ ft/ft}{0.15} = 8.2903\ ft/yr$$

CONCLUSION:

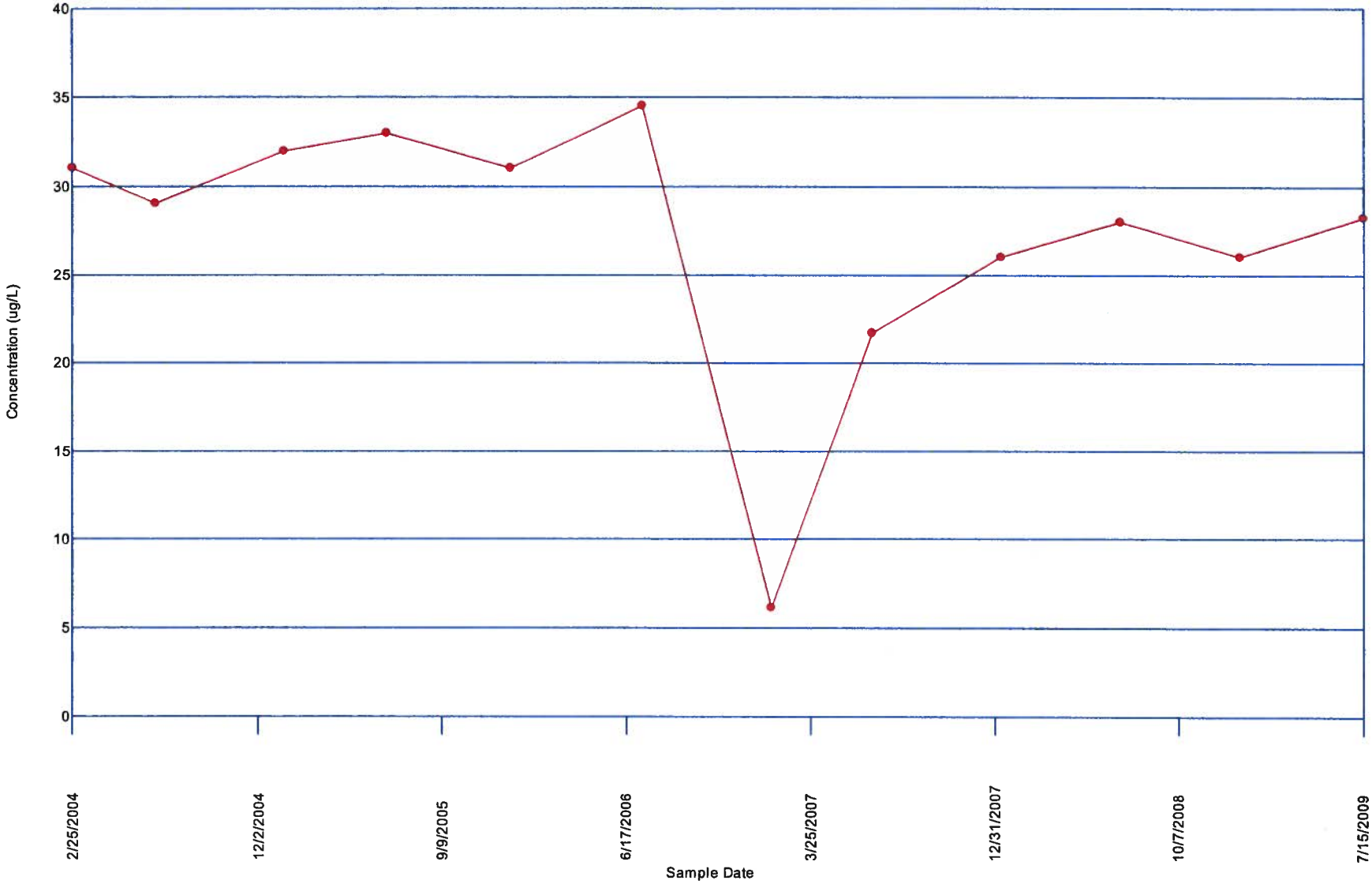
The average groundwater flow velocity, V, equals **8.29 ft/yr**.

APPENDIX IV

(TIME SERIES GRAPHS FOR MONITOR WELLS)

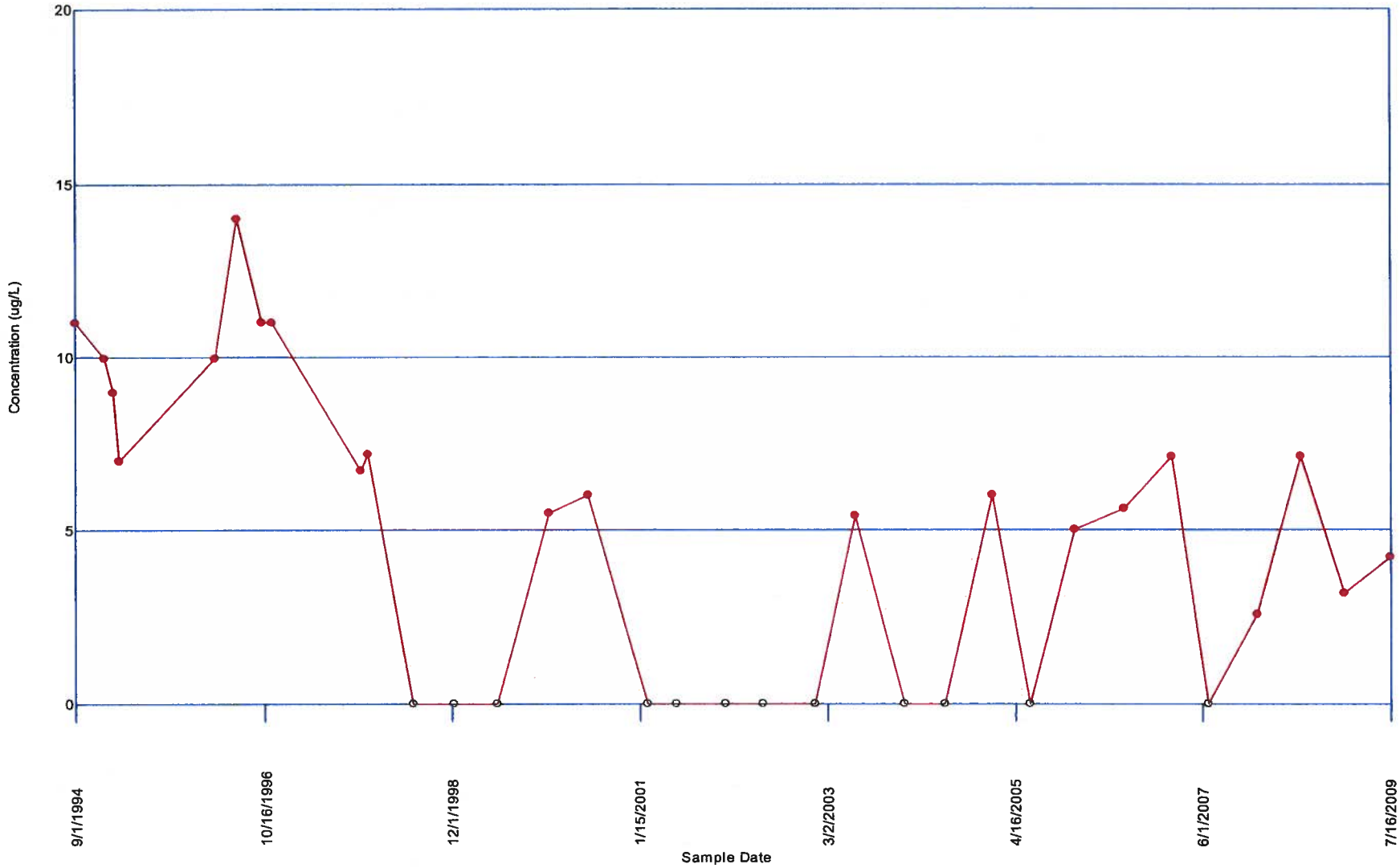
Cobalt

Time-Series Graph of MW-3B



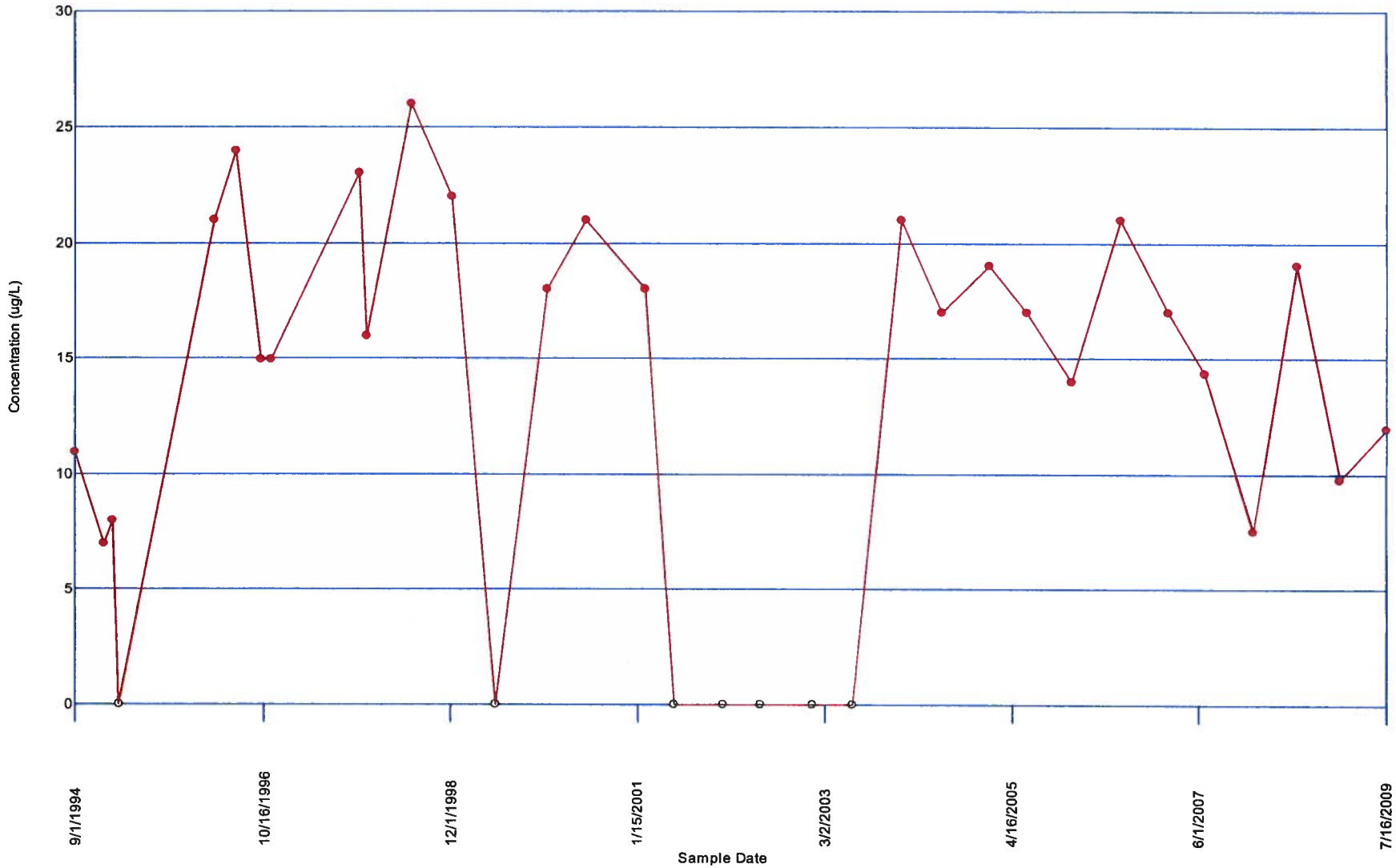
Benzene

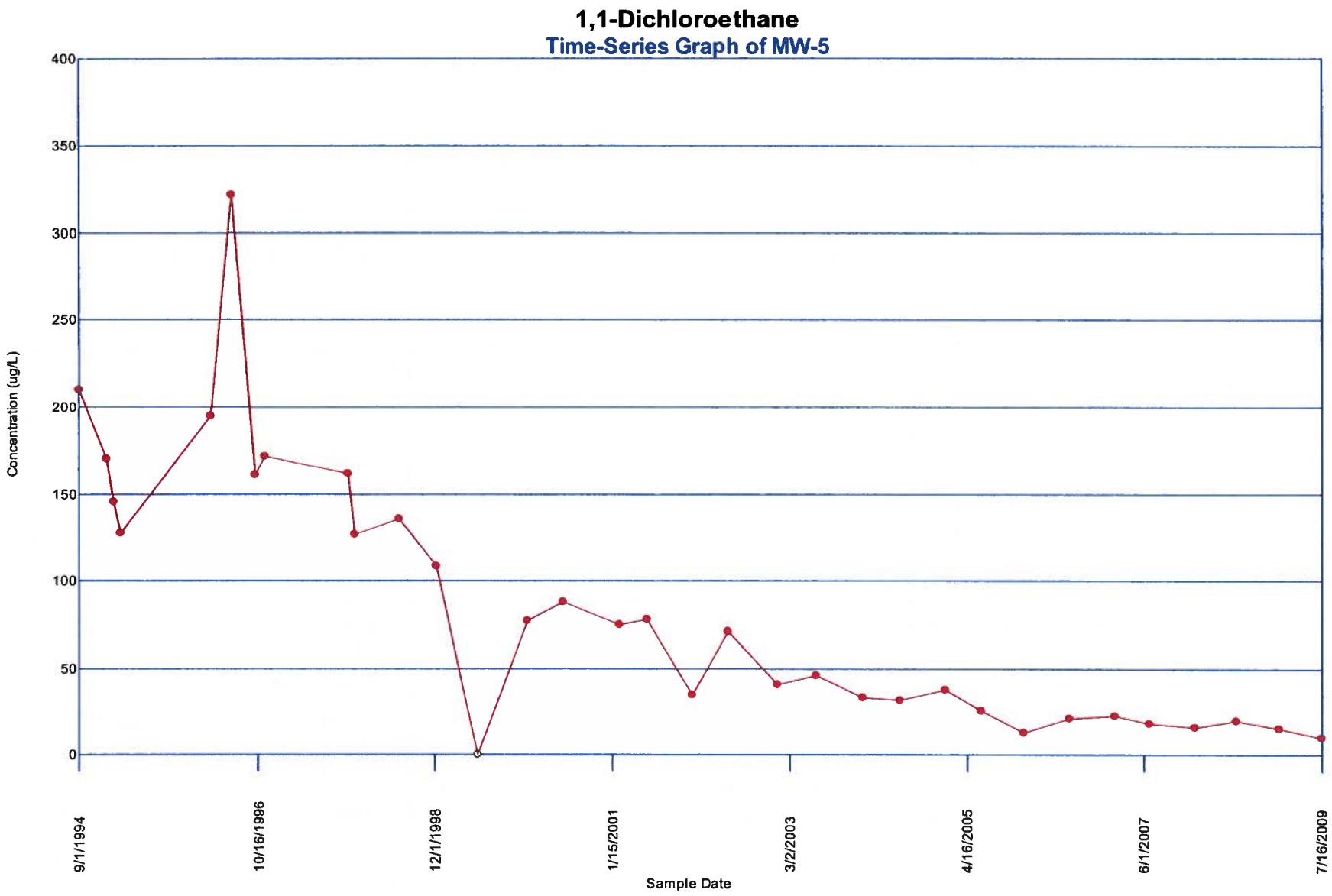
Time-Series Graph of MW-5



Chlorobenzene

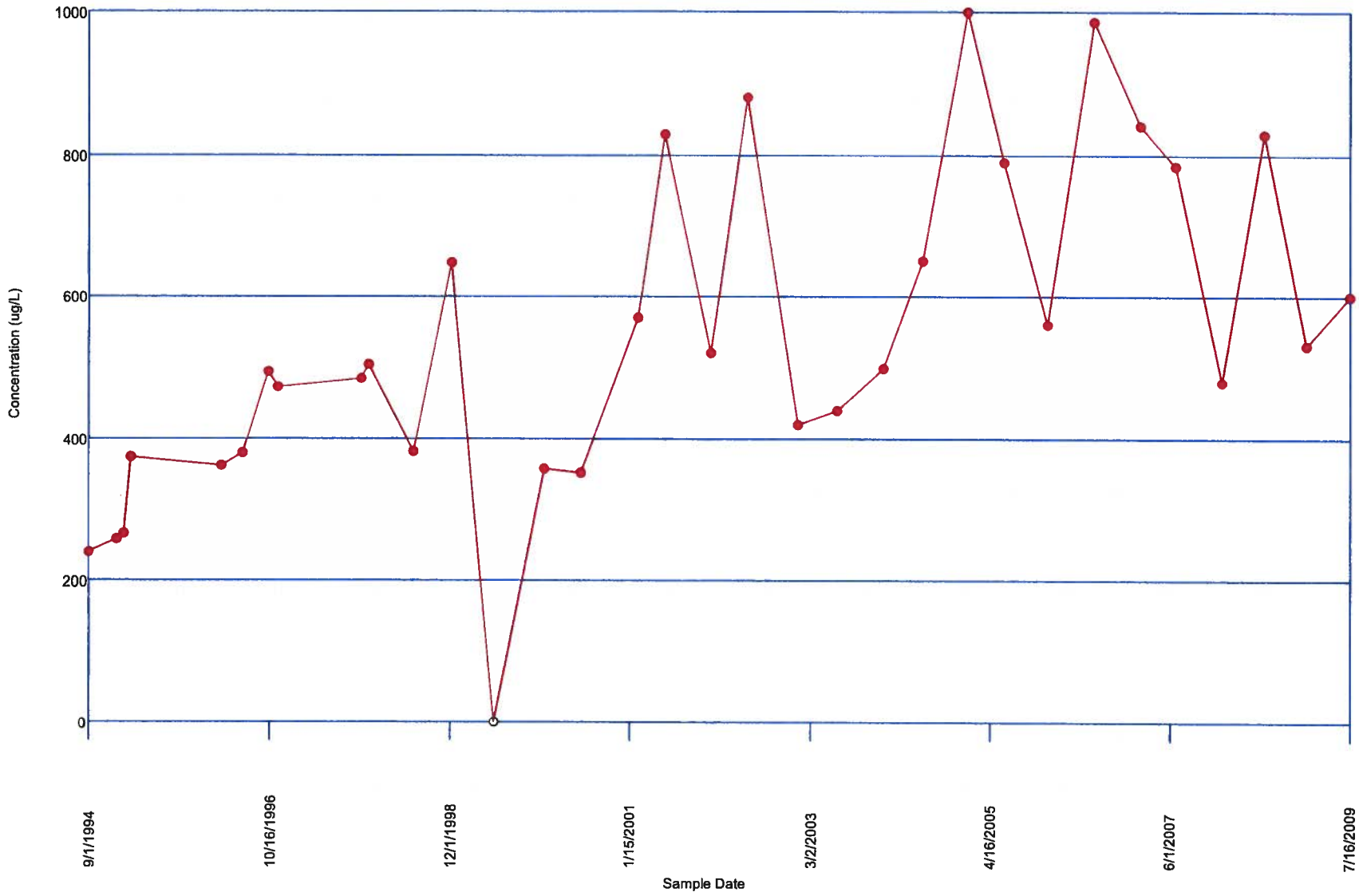
Time-Series Graph of MW-5

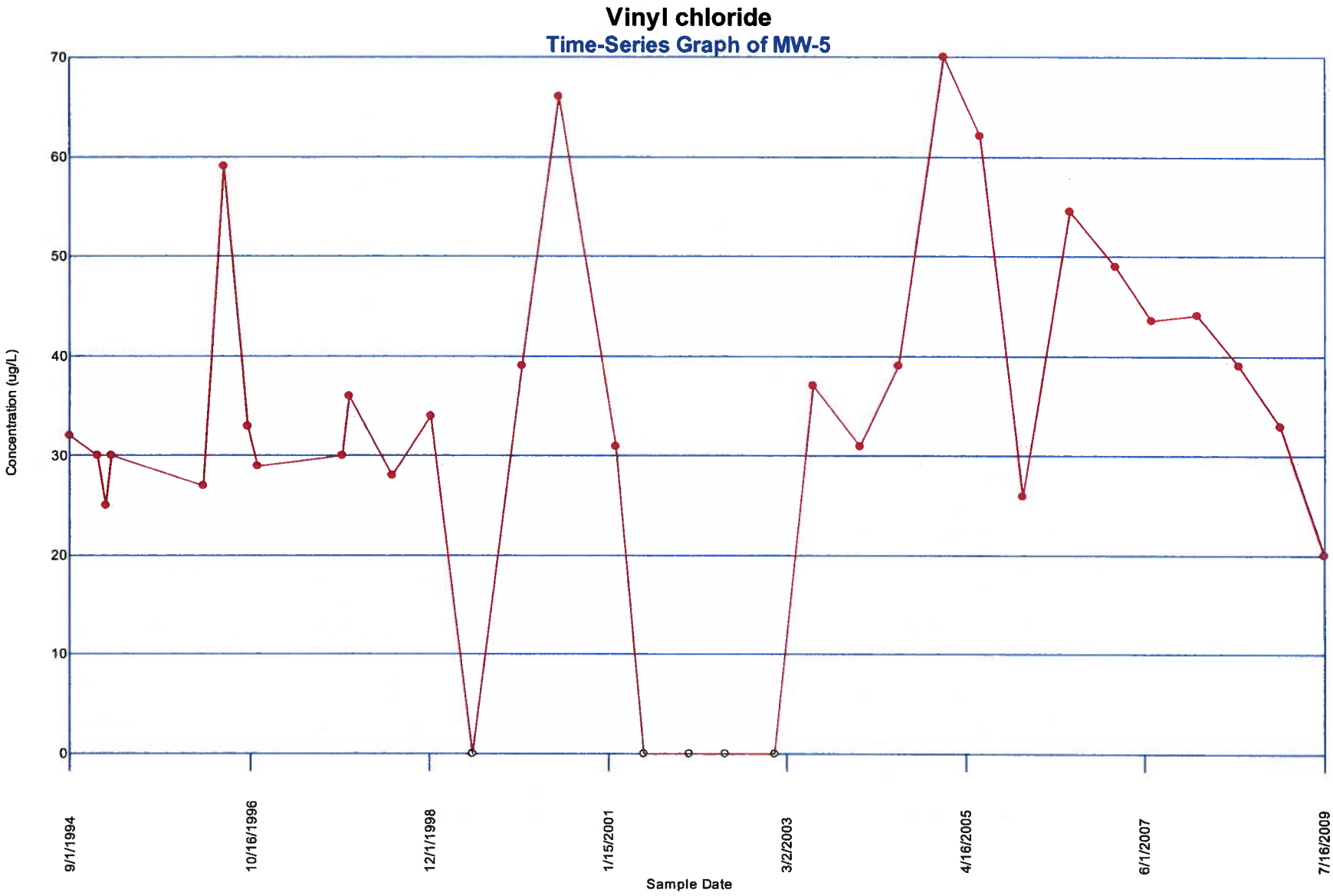



1,1-Dichloroethane
Time-Series Graph of MW-5
Concentration (ug/L)
400
350
300
250
200
150
100
50
0
9/1/1994
10/16/1996
12/1/1998
1/15/2001
3/2/2003
4/16/2005
6/1/2007
7/16/2009
Sample Date

cis-1,2-Dichloroethene (-ethylene)

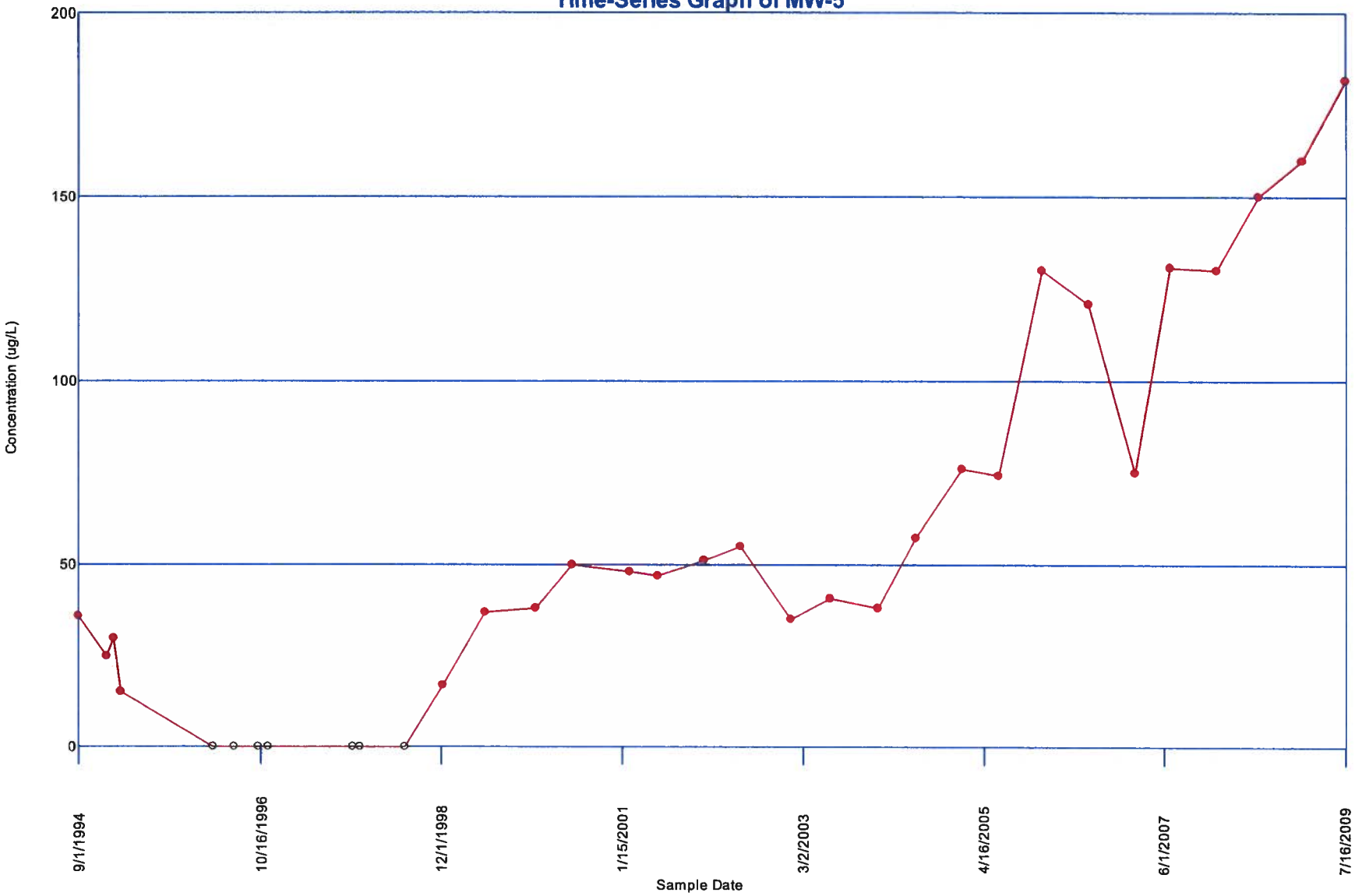
Time-Series Graph of MW-5

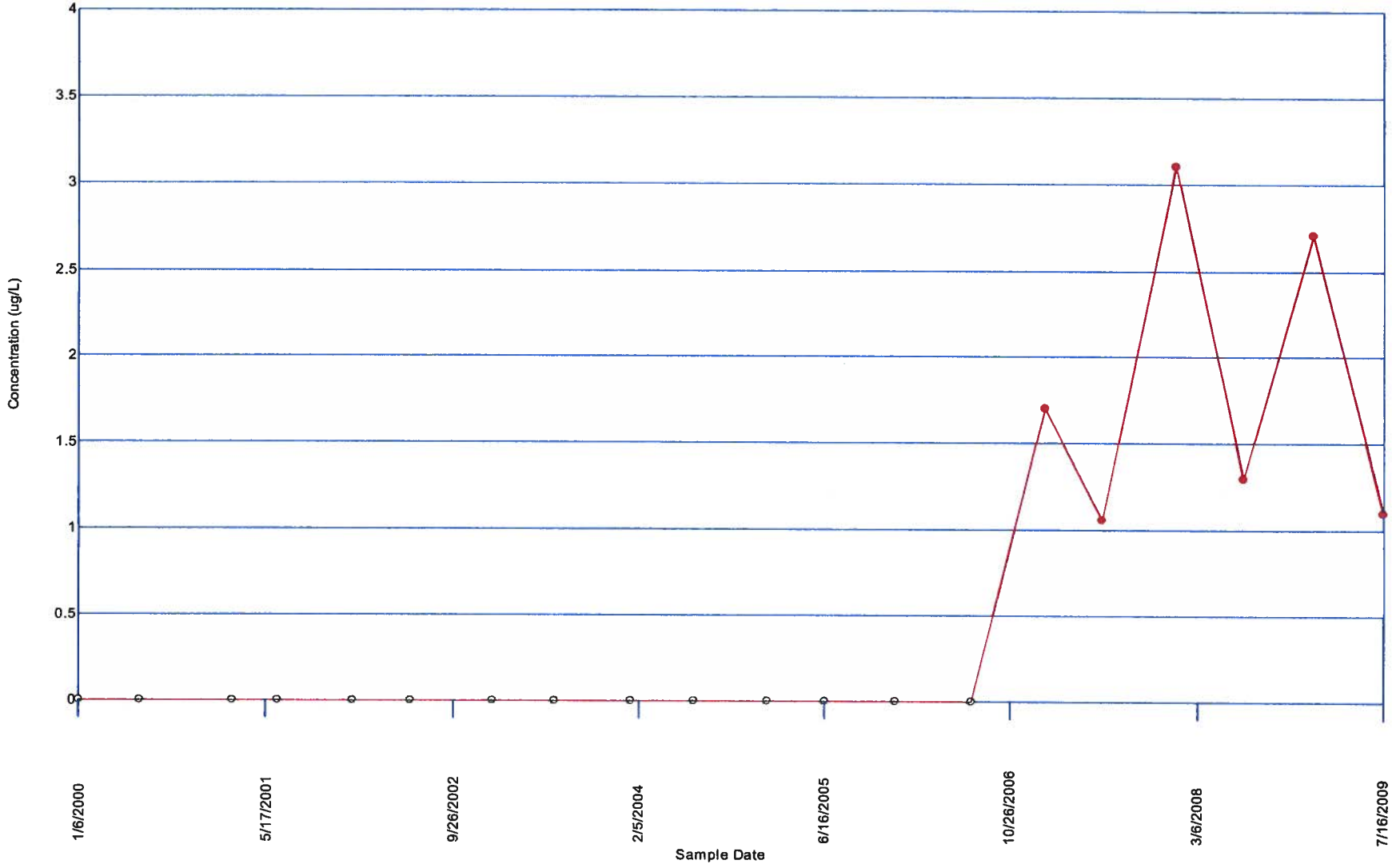



Vinyl chloride
Time-Series Graph of MW-5
Concentration (ug/L)
70
60
50
40
30
20
10
0
9/1/1994
10/16/1996
12/1/1998
1/15/2001
3/2/2003
4/16/2005
6/1/2007
7/16/2009
Sample Date

Cobalt

Time-Series Graph of MW-5



Benzene

Time-Series Graph of MW-7A