REPORT

SEMI-ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT FEBRUARY 2013 EVENT

Trail Ridge Landfill

FDEP Permit Number 0013493-017-SO

WACS ID Number NED/16/00033628

5110 U.S. Highway 301

Duval County, Jacksonville, Florida 32234

Submitted To: Florida Department of Environmental Protection
Northeast District Office
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256-7590 USA

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Emerson Raulerson, P.E.
Florida Department of Environmental Protection
Northeast District Office
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256-7590 USA

RE: SEMI-ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT FOR THE FEBRUARY 2013 MONITORING EVENT, TRAIL RIDGE LANDFILL, DUVAL COUNTY, FLORIDA, PERMIT NO. 0013493-017-SO

Dear Mr. Raulerson:

Golder Associates Inc. (Golder) has prepared this report summarizing the February 2013 semi-annual detection monitoring event for the Trail Ridge Landfill owned by the City of Jacksonville and operated by Waste Management under Florida Department of Environmental Protection Permit Number 0013493-017-SO and WACS ID Number NED/16/00033628. This semi-annual report is submitted in accordance with monitoring and reporting requirements of Chapters 62-160, 62-520, and 62-701 of the Florida Administrative Code (F.A.C.) and the Facility Permit.

If you have any questions regarding this report please contact the undersigned at (770) 496-1893.

Sincerely,

GOLDER ASSOCIATES INC.

Michael J. Smilley, P.G.
Project Geologist

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

cc: Trail Ridge Landfill
Eric Parker, Waste Management of Florida

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1.0 INTRODUCTION

The Trail Ridge Municipal Landfill (Site) is owned by the City of Jacksonville and operated by Waste Management in accordance with Florida Department of Environmental Protection (FDEP) Operation Permit Number 0013493-017-SO issued September 16, 2009. The Site is an active municipal solid waste landfill that serves the City of Jacksonville and Duval County.

Golder Associates Inc. (Golder) has been retained to report the results of semi-annual groundwater and surface water monitoring at the Site in accordance with Specific Conditions 45 and 46 of the referenced permit, which follow the provisions of the Florida Administrative Code (F.A.C.) Chapters 62-160, 62-520, and 62-701. This report presents the methods and findings of the first 2013 semi-annual groundwater and surface water monitoring event conducted in February 2013. The following sections include general information concerning the Site history and setting, an evaluation of surficial aquifer groundwater flow, and groundwater and surface water quality conditions at the Site. Laboratory analytical data are summarized, evaluated, and compared to historic data where appropriate.

2.0 BACKGROUND

2.1 Site Location and Description

The Site is located in Jacksonville approximately five miles southwest of the intersection of US-301 and I-10 in southwestern Duval County along the border with Baker County, Florida (Figure 1).

2.2 Groundwater and Surface Water Monitoring Systems

Groundwater and surface water monitoring events are conducted concurrently on a semi-annual basis prior to March 30th and September 30th of each year. Leachate monitoring is scheduled to occur on an annual basis before September 30th; resulting data is submitted in conjunction with the associated semi-annual groundwater and surface water monitoring report.

Figure 2 shows the Site layout and groundwater monitoring well and surface water sampling locations. The Site groundwater monitoring system consists of thirty-seven (37) groundwater monitoring wells screened at shallow (S), intermediate (I), and deep (D) depths within the uppermost, surficial aquifer. These include:

- Sixteen (16) shallow wells: MWB-2(S), MWB-3(S), MWB-7(S), MWB-11(S), MWB-12(S), MWB-13(S), MWB-17(S), MWB-19(S), MWB-20(S), MWB-21(S), MWB-22(S), MWB-27(S), MWB-29(S), MWB-32(S), MWB-33(S), MWB-34(S)
- Twelve (12) intermediate wells: MWB-2(I), MWB-3(I), MWB-7(I), MWB-11(IR), MWB-12(I), MWB-13(I), MWB-17(I), MWB-19(I), MWB-27(I), MWB-29(I), MWB-32(I), MWB-34(I)
- Nine (9) deep wells: MWB-7(D), MWB-12(D), MWB-17(D), MWB-19(D), MWB-27(D), MWB-29(D), MWB-31(D), MWB-32(D), MWB-34(D)

Background wells MWB-2(S), MWB-3(S), MWB-2(I), MWB-3(I), and MWB-31(D) demonstrate background water quality for the facility because they are located upgradient from landfill waste. The remaining wells listed above are utilized for compliance or detection monitoring purposes associated with various phases of landfill development. The following table indicates which wells are associated with each phase and function (e.g., background, compliance, or detection).

Trail Ridge Groundwater Monitoring Program Details

Well Type	Well ID
Background Well Clusters	
Background	MWB-2(S), MWB-2(I), MWB-3(S), MWB-3(I), MWB-31(D)
Phase I	
Compliance	MWB-7(S), MWB-7(I), MWB-7(D), MWB-11(S), MWB-11(IR), MWB-12(S), MWB-12(I), MWB-12(D), *MWB-14(S)*, MWB-14(I)*, MWB-14(D)**, MWB-19(S), MWB-19(I), MWB-19(D), MWB-20(S), MWB-21(S), MWB-22(S)
Phase II	
Compliance	MWB-17(S), MWB-17(I), MWB-17(D)
Phase III and Phase IV	
Compliance	MWB-13(S), MWB-13(I), *MWB-23(S)**
Detection	MWB-33(S), MWB-34(S), MWB-34(I), MWB-34(D)
Phase V	
Compliance	*MWB-24(S)*, MWB-25(S)*, MWB-25(I)*, MWB-25(D)*, MWB-26(S)**, MWB-27(S), MWB-27(I), MWB-27(D), MWB-29(S), MWB-29(I), MWB-29(D)
Detection	MWB-32(S), MWB-32(I), MWB-32(D)

As indicated in the permit, the nine wells shown above in italics with an asterisk (*) -- MWB-14(S), MWB-14(I), MWB-14(D), MWB-23(S), MWB-24(S), MWB-25(S), MWB-25(I), MWB-25(D), and MWB-26(S) -- are maintained but are not currently utilized for routine monitoring.

The Site surface water monitoring system consists of three (3) surface water monitoring locations: SW-1, SW-2, and SW-3. Surface water monitoring location SW-1 is located in a wetland approximately 200 feet east of the facility's stormwater retention basin. SW-2 is located in an east-west trending drainage feature approximately 500 feet north of the landfill, and is considered a background water quality location because it does not receive surface water runoff from the landfill. SW-3 was established under the latest permit issuance at the discharge point of the Site stormwater pond approximately 700 feet east of the landfill boundary. SW-3 is sampled at the discharge point if actively discharging or from the center of the pond if there is no active discharge.

3.0 DATA COLLECTION METHODS

3.1 Groundwater Elevation Measurements

ProTech field personnel measured water levels in Site monitoring wells on February 27, 2013 prior to purging and sampling activities in accordance with procedures described in the facility permit. Water levels were measured at all active groundwater monitoring wells at the Site within a 24-hour period to evaluate static groundwater conditions across the entire Site. Field personnel opened the monitoring wells to allow groundwater levels to equilibrate to atmospheric conditions, and then measured the depth to groundwater to within 0.01 feet relative to the top of the inner PVC well casing using an electronic water level indicator. Golder calculated water table elevations at each well using record drawing elevations and details to evaluate the general direction of groundwater flow in the uppermost aquifer underlying the Site. The calculations were performed by taking the difference between the measured depth to groundwater and the top of casing elevation surveyed for each well. Table 1 provides a summary of groundwater elevation data collected during the February 2013 monitoring event.

3.2 Monitoring Well Redevelopment

To address elevated turbidity readings observed in monitoring well MWB-32S during October 2012 monitoring event, this well was redeveloped to remove sediment from the well bottom and well screen. MWB-32S was redeveloped by surging and pumping with a submersible pump to remove approximately 76 gallons of water. Turbidity readings dropped below 5 NTU during pumping. Well development field forms are presented in Appendix A.

3.3 Groundwater and Surface Water Sample Collection and Analysis

Groundwater and surface water sampling was conducted in accordance with F.A.C. Chapter 62-160 and FDEP's Standard Operating Procedures for Field Activities (DEP-SOP-001/01).

ProTech field personnel collected groundwater samples for laboratory analysis from all thirty-seven monitoring wells between February 27th and 28th, 2013. Groundwater monitoring wells were purged with dedicated QED bladder pumps with Teflon-lined tubing extending to the top of the well casing. Purging continued at each location until approximately three times the volume of water in the well casing was removed. Field parameters including static water level, pH, specific conductance, temperature, turbidity, dissolved oxygen, and color/sheen (by observation) were recorded during purging and prior to sampling. Once purging was complete, ProTech field personnel collected groundwater samples from the dedicated pumps and tubing in laboratory-provided containers, and placed the samples in coolers with ice. On February 29th, 2013 surface water samples were collected from three surface water monitoring points using a dipper or laboratory-provided container. Field parameters including pH, specific conductance, temperature, turbidity, dissolved oxygen, and color/sheen (by observation) were recorded at the time of

sampling. Instrument calibration records (FD 9000-8) are included in Appendix A, and completed groundwater sampling logs (FD 9000-24) are provided along with the laboratory report in Appendix B.

TestAmerica – Tallahassee, a Florida-certified laboratory, analyzed groundwater and surface water samples collected in February 2013 for the parameters identified in Attachments 6 and 9, respectively, of the facility permit as summarized in the following table. The full laboratory report and associated chain of custody records are included in Appendix B.

Laboratory Analyses for Trail Ridge Landfill Groundwater and Surface Water Samples

Sample Type	Analytical Parameter	Analysis Method
Groundwater	Total Ammonia - N	350.1
	Chlorides	300.0
	Iron	6010C
	Mercury	7470A
	Nitrate	353.2
	Sodium	6010C
	Total Dissolved Solids (TDS)	SM 2540C
	40 CFR Part 258 VOCs	8260C
	40 CFR Part 258 Metals	6020
Surface Water	Unionized Ammonia - N	Unionized NH3
	Total Hardness	SM 2340B
	Biochemical Oxygen Demand (BOD5)	SM 5210B
	Copper	6020
	Iron	6010C
	Mercury	1631E
	Nitrate	353.2, Nitrate by calc
	Zinc	6020
	Total Dissolved Solids (TDS)	SM 2540C
	Total Organic Carbon (TOC)	SM 5310C
	Fecal Coliform	SM 9222D
	Total Phosphates	SM 4500 P E
	Chlorophyll A	SM 10200H
	Total Nitrogen	9060
	Chemical Oxygen Demand (COD)	SM 5220D
	Total Suspended Solids (TSS)	SM 2540D
	40 CFR Part 258 VOCs – Appendix I	8260C
	40 CFR Part 258 Metals – Appendix I	6020

4.0 GROUNDWATER FLOW RATE AND DIRECTION EVALUATION

4.1 Groundwater Elevations and Flow Direction

Golder calculated groundwater elevations based on water levels measured on February 27, 2013 and top of well casing elevations surveyed relative to the National Geodetic Vertical Datum (NGVD) provided in Table 1. Figures 3, 4, and 5 show shallow, intermediate, and deep potentiometric contours for the surficial aquifer, respectively. Groundwater flow beneath the Site in the uppermost aquifer is to the east at shallow, intermediate, and deep depths. The direction of groundwater flow is consistent with measurements from previous monitoring events.

4.2 Horizontal Hydraulic Gradients

Average horizontal hydraulic gradients for the February 2013 monitoring event were calculated for the shallow, intermediate, and deep depths within the surficial aquifer along flow paths oriented perpendicular to the potentiometric contours (Appendix C). The results, summarized in the following table, are consistent with historical gradient values for the Site.

Horizontal Hydraulic Gradient Values

Surficial Aquifer Unit	Calculation Description	Gradient (ft/ft)
Shallow	140-foot potentiometric contour and MWB-22(S) Approximate distance 2,600 feet	0.010
Intermediate	135-foot potentiometric contour and MWB-12(I) Approximate distance 1,900 feet	0.009
Deep	MWB-31(D) and 120-foot potentiometric contour Approximate distance 2,400 feet	0.008
	Site Average Hydraulic Gradient	**0.009**

5.0 WATER QUALITY MONITORING RESULTS

5.1 Quality Assurance and Quality Control (QA/QC) Results

ProTech field personnel collected two field blanks during the February 2013 sampling event and submitted the samples with trip blanks in coolers containing volatile organic compound samples to Test America for analysis. The laboratory provided additional QA/QC including analysis of method blanks, surrogates, laboratory control samples (LCS), and matrix spike/matrix spike duplicates (MS/MSD). Golder evaluated the QA/QC results for the laboratory reports associated with groundwater and surface water monitoring points from Test America Laboratory Report 640-37461-1. The following QA/QC issues were identified and, if necessary, qualified accordingly:

- Several analytes were detected between method detection limits and practical quantitation limits (PQL); these detections were qualified with an "I."
- Methylene chloride and mercury were detected in method blanks between the method detection limit and PQL; associated results have been qualified with a "V."
- LCS were biased high for bromoform, chlorodibromomethane, dichlorobromomethane, and EDB (1,2-dibromoethane) in selected samples; associated sample results were non-detect and were therefore not qualified.
- Nitrite was outside of holding times for MWB-11(IR), MWB-7(I), and MWB-7(D); nitrite results were not included in the laboratory analytical report, however, results were used in the calculation of nitrate.
- MS/MSD recoveries were outside control limits for 1,1,1-trichloroethane and carbon tetrachloride (batch 99918), antimony and arsenic (batch 268709), ammonia (batch 268993), nitrate-nitrite as N (batch 99983) ; the associated LCS recoveries for the above parameters met acceptance criteria and the associated data are considered acceptable.
- Ammonia (as N) was detected in Field Blank 01 and Field Blank 02 between the method detection limit and PQL. Samples were not qualified based on detections of inorganic constituents in field blank samples below the PQL (USEPA, 2011).

No other QA/QC issues were identified during data validation; therefore, the remaining results from the February 2013 event are considered acceptable without qualification.

5.2 Laboratory Analysis Results

Tables 2A through 3 summarize laboratory analytical results for groundwater and surface water samples collected during the February 2013 monitoring event for Trail Ridge Landfill. Copies of the laboratory

analytical reports are provided in Appendix B. An electronic copy of the ADaPT software results is provided in Appendix D. Groundwater Monitoring Report Certification is included as Appendix E.

5.2.1 Groundwater

Tables 2A, 2B, and 2C summarize laboratory analytical results for the shallow, intermediate, and deep zones of the surficial aquifer, respectively. Several inorganic analytes were detected in background, compliance, and detection wells at various depths: chloride, ammonia, nitrate, iron, sodium, Appendix I metals, mercury, and total dissolved solids (TDS). In addition, certain volatile organic compounds (VOCs) were detected in groundwater samples:

- Benzene at MWB-12(I) at 0.14 I ug/L
- Toluene at MWB-22(S) at 0.26 I ug/L and MWB-12(I) at 0.26 I ug/L

All VOC detections were between the method detection limit and practical quantitation limit (qualified as "I"). Benzene and Toluene have been detected in groundwater at comparable concentrations at wells at the site; including benzene at background well MWB-2(S) and toluene at background wells MWB-2(S) and MWB-2(I). Other VOCs (i.e., carbon disulfide and acetone) that were detected during previous events were not detected during this event. The VOC detections therefore do not appear to represent deterioration in groundwater quality related to the landfill.

5.2.2 Surface Water

Table 3 summarizes laboratory analytical results for surface water samples collected from the Site. Several inorganic analytes were detected at one or more surface water location: mercury, nitrate, phosphorous and orthophosphate, iron, Appendix I metals, unionized ammonia, chlorophyll a, hardness, TDS, total suspended solids (TSS), chemical oxygen demand (COD), total organic carbon, and fecal coliform. VOCs were not detected in surface water samples.

5.3 Field Parameter Measurement Results

Table 4 summarizes field parameter measurements for groundwater and surface water samples collected during this event. Original field forms with parameter measurements are included at the end of the laboratory report in Appendix B.

5.3.1 Groundwater

Groundwater field parameter readings and observations are consistent with those from previous semi-annual monitoring events. The average pH increases with depth among the shallow, intermediate, and deep zones of the aquifer. The deep groundwater likely has higher pH values than the shallow wells due to carbonate rock buffering deeper in the aquifer. Conversely, dissolved oxygen concentrations tend to decrease with depth as less mixing occurs with shallow oxygenated recharge water. Turbidity values

were typically lower than 20 nephelometric turbidity units (NTU), except for MWB-12(S) at 36.75 NTU, MWB-13(S) at 24.34 NTU, and MWB-17(S) at 20.43 NTU. These values are lower than turbidity values observed in groundwater wells at the Site in the past.

5.3.2 Surface Water

Surface water field parameter readings and observations are also within the historic range of surface water measurements. The measured pH values ranged from 4.14 to 7.28; dissolved oxygen ranged from 5.0 to 6.2 mg/L; specific conductivity ranged from 64 to 264 microSiemens per centimeter (uS/cm); and temperature ranged from 14.7 to 17.4 degrees Celcius. Turbidity values were below 20 NTU at SW-1 and SW-2; the turbidity at SW-3 was 156.3 NTU.

6.0 COMPARISON TO ESTABLISHED STANDARDS

F.A.C. Chapter 62-701.510 and the facility permit require comparison of water quality monitoring data to water quality standards specified in F.A.C. Chapter 62-520 (Ground Water Classes, Standards, and Exemptions) and F.A.C. Chapter 62-302 (Surface Water Quality Standards). The following sections present a description of the established standards and comparison of results for groundwater and surface water.

6.1 Groundwater

6.1.1 Established Standards

F.A.C. Chapter 62-520 establishes classes and standards for groundwater. Permit Conditions 45.c and 45.d require that the water quality standards for Class G-II groundwater (Rule 62-520.420) will not be exceeded at the zone of discharge boundary and that minimum criteria for groundwater (Rule 62-520.400) are not violated within the zone of discharge.

The minimum criteria identified in F.A.C. Chapter 62-520.400 indicate that groundwater shall be "free from domestic, industrial, agricultural, or other man-induced non-thermal components of discharges" in concentrations that:

- Are harmful to plants, animals, or native organisms
- Are carcinogenic, mutagenic, teratogenic, or toxic to human beings unless specific criteria are established in Rule 62-520.420
- Are acutely toxic within surface waters affected by groundwater
- Pose a serious danger to public health, safety, or welfare and/or create a nuisance
- Impair the reasonable and beneficial use of adjacent waters

The Class G-II standards identified in F.A.C. Chapter 62-520.420 for potable groundwater in aquifers with total dissolved solids content less than 10,000 mg/L refer to primary and secondary drinking water quality standards listed in Rules 62-550.310 and 62-550.320, respectively, with the exception that the total coliform bacteria standard shall be 4 per 100 milliliters. The primary maximum contaminant levels (MCLs) and secondary maximum contaminant levels (SMCLs) for parameters included in laboratory analysis are listed on Tables 2A through 2C. The only field parameter with an established drinking water standard under F.A.C. Rule 62-550.310 and 62.550.320 is pH, with an SMCL in the range of 6.5 to 8.5.

F.A.C. Chapter 62-520.420 indicates that "if the concentration for any constituent listed in subsection (1) above in the natural background quality of the ground water is greater than the stated maximum, or in the

case of pH is also less than the minimum, the representative natural background quality shall be the prevailing standard for Class G-I and Class G-II ground water."

6.1.2 Comparison of Groundwater Data to Established Standards

The groundwater monitoring results from the February 2013 event met minimum criteria established under F.A.C. Chapter 62-520.400 and primary MCLs established under F.A.C. Chapter 62-550.310. SMCL exceedances were measured for iron, pH and TDS at one or more wells. These exceedances are summarized below.

Iron (SMCL 0.3 mg/L)

- Shallow wells: MWB-11(S), MWB-13(S), MWB-19(S), MWB-21(S), MWB-29(S), MWB-32(S)
- Intermediate wells: MWB-7(I), MWB-11(IR), MWB-12(I), MWB-13(I), MWB-17(I), MWB-19(I), MWB-27(I), MWB-29(I), MWB-32(I), and MWB-34(I), and background wells MWB-2(I) and MWB-3(I)
- Deep wells: MWB-7(D), MWB-12(D), MWB-17(D), MWB-19(D), MWB-27(D), MWB-29(D), MWB-32(D), and MWB-34(D), and background well MWB-31(D)

pH (SMCL 6.5 to 8.5)

- Shallow wells: All measured background, compliance, and detection wells were below 6.5
- Intermediate wells: All background, compliance, and detection wells were below 6.5
- Deep wells: MWB-17(D), MWB-27(D), MWB-29(D), and MWB-32(D) were below 6.5

TDS (SMCL 500 mg/L)

- Shallow well: MWB-34(S)

All of the above parameters have been historically detected at concentrations exceeding the applicable SMCL and reported to FDEP; no new exceedances require reporting under F.A.C. Chapter 62-701.510. Iron and pH have also been detected in background wells at concentrations greater than (or, in the case of pH, less than) the associated SMCL. These SMCL exceedances therefore appear to be related to natural subsurface conditions rather than landfill impacts. Further discussion regarding the natural occurrence of iron and low pH is provided in Section 7.0.

Previous groundwater monitoring reports attributed elevated TDS concentrations in MWB-34(S) to periodic leachate pump issues that occurred between 2005 and 2007. TDS concentrations in MWB-34(S) have generally decreased since 2008, which indicates that conditions are improving.

6.2 Surface Water

6.2.1 Established Standards

Facility permit condition 46.d requires that surface water discharges shall not exceed quality standards for drinking water or surface water. In this case, drinking and surface water quality standards under F.A.C. Chapter 62-302 apply. F.A.C. Chapter 62-302 establishes minimum criteria and water quality standards for several classes of water including: Class I (potable water supplies), Class II (shellfish propagation or harvesting), Class III (fish consumption, recreation, propagation and maintenance of a healthy, well-balanced population of fish and wildlife), Class IV (agricultural water supplies), and Class V (navigation, utility, and industrial use).

The minimum criteria identified in F.A.C. Chapter 62-302.500 indicate that surface waters shall be "free from domestic, industrial, agricultural, or other man-induced non-thermal components of discharges" which:

- Settle to form putrescent deposits or create a nuisance
- Float as debris, scum, oil, or other matter in such amounts to create a nuisance
- Produce color, odor, taste, turbidity, or other conditions to create a nuisance
- Are acutely toxic
- Are present in concentrations which are carcinogenic, mutagenic, or teratogenic to human beings or to significant, locally occurring fish and wildlife
- Pose a serious danger to public health, safety, or welfare

The surface water quality standards for each defined class are established in F.A.C. Chapter 62-302.530. Class I and Class III (predominantly fresh water) are the only applicable surface water classes for the Site. Standards for these two classes are provided in Table 3 for laboratory parameters and Table 4 for field parameters. In some cases, F.A.C. Chapter 62-302.530 requires calculations for Class I and III standards based on sample hardness. Table 5 provides equations and calculation results for analytes which require standard calculation, including cadmium, chromium, copper, lead, nickel, and zinc.

6.2.2 Comparison of Surface Water Data to Established Standards

The surface water monitoring results from the February 2013 met minimum criteria established under F.A.C. Chapter 62-302.500. The following detections exceeded Class I/III surface water quality standards identified in Table 3 (laboratory parameters), Table 4 (field parameters), and/or Table 5 (calculated standards):

- Beryllium at SW-2
- Iron at SW-1 and SW-3
- Lead at SW-1 and SW-3
- Coliform at SW-2 and SW-3
- pH at SW-1 and SW-2
- Turbidity at SW-3

All of the above parameters have been historically detected at concentrations exceeding the applicable SMCL.

Fecal coliform counts at SW-1, SW-2 and SW-3 were 32 B, 1188 B and 2440 B colony forming units per 100 milliliters (CFU/100 mL), respectively. The fecal coliform detections at SW-2 and SW-3 exceeded the Class I/III maximum daily criteria (800 cfu/mL) and the monthly average criteria (200 cfu/mL). The detection at SW-1 is consistent with historical coliform concentrations. The detection at SW-2 is consistent with the historical range of detections, but is higher than detected concentrations since August 2009, and the detection at SW-3 is the highest detection since February 2010.

7.0 DISCUSSION AND RECOMMENDATIONS

During the most recent event, several analytes were detected in groundwater and/or surface water at concentrations exceeding applicable drinking water and/or surface water quality standards. These include iron, pH, and TDS for groundwater; and beryllium, iron, lead, coliform, pH, and turbidity for surface water. All of the above parameters have been historically detected at concentrations exceeding the applicable SMCL. Detections for the most recent event were all within the historical range of concentrations observed at the Site, with the exception of coliform at SW-3. Coliform detections are often biased high if not analyzed within hours of sample collection. During future surface water sampling events additional steps will be taken to reduce holding time for coliform analysis.

Iron was the most commonly detected parameter in both groundwater and surface water. Iron has been historically detected in background/upstream and downgradient/downstream locations at concentrations exceeding SMCLs and surface water quality standards. In groundwater, iron concentrations typically increase with depth. Previous monitoring reports have attributed this to reduction processes in the deeper surficial aquifer, where insoluble ferric iron is converted to soluble ferrous iron. This process results in a shift in groundwater pH from acidic to a more neutral state (i.e., closer to 7). This is consistent with observed groundwater pH values, which are lower (i.e., more acidic) near the surface and tend to increase with depth. In surface water, iron concentrations are consistent with those observed in surrounding soils in the region and can be explained by the local vegetative cover. The other metal(s) detected in surface water (e.g., lead) also naturally occur in area soils, and may be correlated to turbidity in conjunction with naturally occurring low pH.

Analyte detections and standard exceedances observed during this event for both groundwater and surface water are consistent with historical conditions and/or background water quality. Based on these findings, Golder recommends continued semi-annual detection monitoring in accordance with F.A.C. Chapter 62-701 and the facility permit. The next groundwater, surface water, and leachate monitoring event should be conducted prior to September 30, 2013.

8.0 PROFESSIONAL CERTIFICATION

I hereby certify that I have supervised the current field work and preparation of this report, in accordance with Chapter 62-701, Florida Solid Waste Management Facility Regulations. As a registered professional geologist, I certify that I am a qualified professional with knowledge and experience in water quality assessment. To the best of my knowledge, the information and laboratory data summarized in this report (including the applicable attachments) are true, accurate, complete, and in accordance with applicable State Rules and Regulations.

GOLDER ASSOCIATES INC.

Richard W. Poff, PG
Florida Professional Geologist No. 2505

4/12/13
Date

9.0 REFERENCES

Florida Administrative Code (F.A.C.) Rules: 62-160, 62-302, 62-520, 62-550, 62-701, and 62-711.

Florida Department of Environmental Protection, DEP-SOP-001/01

Florida Department of Environmental Protection, Division of Waste Management, Document Management System (OCULUS), Accessed May 2011.

Florida Department of Environmental Protection, Notice of Permit, September 16, 2009, Permit Number 0013493-017-SO.

HDR Engineering, Inc., October 2010, Semiannual Water Quality Monitoring Report, Trail Ridge Landfill, Operating Permit No. 0013493-017-SO.

HDR Engineering, Inc., April 2010, Semiannual Water Quality Data Report, Trail Ridge Landfill, Operating Permit No. 0013493-017-SO.

HDR Engineering, Inc., October 2009, Semiannual Water Quality Monitoring Report, Trail Ridge Landfill, Operating Permit No. 0013493-010-SC.

HDR Engineering, Inc., April 2009, Semiannual Water Quality Monitoring Report, Trail Ridge Landfill, Operating Permit No. 0013493-010-SC.

USEPA (United States Environmental Protection Division), 2011, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy.

TABLES

TABLE 1
Water Level Measurements
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-017-SO / WACS ID Number NED/16/00033628

Well ID	TOC Elevation (ft MSL)	Screened Interval (ft BTOC)	Depth to Water (ft BTOC)	Groundwater Elevation (ft MSL)
Shallow Wells				
MWB-2(S)	146.64	10.00 to 20.00	8.75	137.89
MWB-3(S)	154.38	10.00 to 20.00	9.02	145.36
MWB-7(S)	123.29	10.00 to 20.00	8.21	115.08
MWB-11(S)	120.81	9.50 to 19.50	13.05	107.76
MWB-12(S)	124.63	14.50 to 24.50	10.87	113.76
MWB-13(S)	126.05	16.56 to 26.56	15.07	110.98
MWB-17(S)	138.31	13.30 to 18.30	5.60	132.71
MWB-19(S)	127.38	10.00 to 20.00	7.26	120.12
MWB-20(S)	121.01	10.00 to 20.00	7.45	113.56
MWB-21(S)	122.84	13.00 to 18.00	10.76	112.08
MWB-22(S)	126.97	16.00 to 26.00	12.26	114.71
MWB-27(S)	128.42	10.50 to 15.50	6.06	122.36
MWB-29(S)	138.02	10.00 to 20.00	7.51	130.51
MWB-32(S)	124.64	14.90 to 19.90	7.93	116.71
MWB-33(S)	125.90	10.30 to 20.30	10.16	115.74
MWB-34(S)	125.78	13.36 to 18.36	9.25	116.53
Intermediate Wells				
MWB-2(I)	145.73	51.50 to 61.50	8.84	136.89
MWB-3(I)	151.86	52.00 to 62.00	13.25	138.61
MWB-7(I)	121.53	55.00 to 65.00	3.36	118.17
MWB-11(IR)	120.43	45.00 to 55.00	11.24	109.19
MWB-12(I)	124.62	61.50 to 71.50	7.22	117.40
MWB-13(I)	125.98	50.40 to 60.40	9.78	116.20
MWB-17(I)	138.43	50.13 to 60.13	3.25	135.18
MWB-19(I)	127.94	49.00 to 59.00	6.99	120.95
MWB-27(I)	128.63	52.50 to 62.50	5.02	123.61
MWB-29(I)	138.08	53.50 to 63.50	4.85	133.23
MWB-32(I)	124.79	54.56 to 64.56	6.58	118.21
MWB-34(I)	125.80	43.95 to 53.95	8.19	117.61
Deep Wells				
MWB-7(D)	121.65	107.00 to 117.00	1.44	120.21
MWB-12(D)	124.56	102.00 to 112.00	5.25	119.31
MWB-17(D)	138.52	117.32 to 127.32	7.09	131.43
MWB-19(D)	128.23	105.50 to 115.50	7.08	121.15
MWB-27(D)	128.88	110.00 to 110.00	5.41	123.47
MWB-29(D)	138.18	100.50 to 110.50	4.98	133.20
MWB-31(D)	156.15	119.00 to 129.00	17.70	138.45
MWB-32(D)	124.93	98.81 to 108.81	6.92	118.01
MWB-34(D)	125.92	90.78 to 100.78	8.37	117.55

Notes:

TOC - top of casing; ft BTOC - feet below top of casing; ft MSL - feet above mean sea level; NM - not measured because well was dry

Depth to water measurements collected by ProTech on February 27, 2013. Top of casing elevations based on groundwater well survey data provided in October 2010 potentiometric maps (HDR Engineering).

Table 2A
Summary of Groundwater Analytical Results - Shallow
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-2(S)b	MWB-3(S)b	MWB-7(S)c	MWB-11(S)c	MWB-12(S)c	MWB-13(S)c
Laboratory Method EPA 300.0									
Chloride	mg/L		250	**5.6**	**10**	**17**	**21**	**6.3**	**32**
Laboratory Method EPA 350.1									
Ammonia (N)	ug/L			**53**	< 26	**310**	**99**	**150**	**150**
Laboratory Method EPA 353.2 (Nitrate (N))									
Nitrate (N)	mg/L	10		< 0.0054	< 0.0054	**0.075**	< 0.0054	**0.020**	**0.32**
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))									
Nitrate-Nitrite (N)	mg/L	10		< 0.0054	< 0.0054	**0.075**	< 0.0054	**0.020**	**0.32**
Laboratory Method EPA 6020									
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	**1.3 I**
Barium	ug/L	2000		**9.4**	**17**	**11**	**82**	**7.3**	**11**
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5		< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**4.5 I**
Cobalt	ug/L			< 0.15	< 0.15	< 0.15	**0.42 I**	< 0.15	**0.17 I**
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	< 1.1	**1.2 I**	**2.9 I**
Iron	ug/L		300	**130**	**290**	**280**	**1200**	**110**	**1600**
Lead	ug/L	15		< 0.2	< 0.2	< 0.2	< 0.2	**0.80 I**	**1.6**
Nickel	ug/L	100		< 2	< 2	< 2	< 2	< 2	**2.5 I**
Selenium	ug/L	50		< 1	< 1	< 1	< 1	**2.6**	**17**
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**3400**	**4800**	**15000**	**12000**	**4000**	**29000**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	< 3.8	**4.8 I**	< 3.8	**14**	**56**
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
Laboratory Method EPA 7470									
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011									
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057
1,2-Dibromoethane	ug/L	0.02		< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061
Laboratory Method EPA 8260									
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	ug/L	200		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,1,2,2-Tetrachloroethane	ug/L			< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	ug/L	5		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	ug/L	7		< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2,3-Trichloropropane	ug/L			< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dibromoethane	ug/L	0.02		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/L	600		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	ug/L	3		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichloropropane	ug/L	5		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	ug/L	75		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Butanone	ug/L			< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Acetone	ug/L			< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits; V - result is qualified because the analyte was detected in both the sample and the associated method blank.

Bold values indicate detections above the laboratory detection limit; Underlined values indicate a WQS exceedance.

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Golder Associates

Table 2A
Summary of Groundwater Analytical Results - Shallow
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-17(S)c	MWB-19(S)c	MWB-20(S)c	MWB-21(S)c	MWB-22(S)c	MWB-27(S)c
Laboratory Method EPA 300.0									
Chloride	mg/L		250	**8.3**	**11**	**5.7**	**6.3**	**10**	**9.0**
Laboratory Method EPA 350.1									
Ammonia (N)	ug/L			**200**	**480**	**170**	**180**	**310**	**57**
Laboratory Method EPA 353.2 (Nitrate (N))									
Nitrate (N)	mg/L	10		< 0.0054	< 0.0054	**0.23**	< 0.0054	< 0.0054	**4.4**
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))									
Nitrate-Nitrite (N)	mg/L	10		< 0.0054	< 0.0054	**0.23**	< 0.0054	< 0.0054	**4.4**
Laboratory Method EPA 6020									
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Barium	ug/L	2000		**3.2 I**	**65**	**9.7**	**18**	**3.4 I**	**15**
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5		< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	**0.20 I**
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**3.7 I**
Cobalt	ug/L			< 0.15	**0.21 I**	< 0.15	< 0.15	< 0.15	< 0.15
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	**1.8 I**
Iron	ug/L		300	**130**	**1000**	**130**	**610**	**84 I**	**160**
Lead	ug/L	15		**0.44 I**	**0.24 I**	< 0.2	< 0.2	< 0.2	**4.3**
Nickel	ug/L	100		< 2	< 2	< 2	**2.1 I**	< 2	**2.0 I**
Selenium	ug/L	50		< 1	< 1	< 1	< 1	< 1	< 1
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**4700**	**8500**	**3800**	**3100**	**7800**	**11000**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			**5.7 I**	< 3.8	**4.0 I**	< 3.8	< 3.8	**14**
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
Laboratory Method EPA 7470									
Mercury	ug/L	2		**0.85**	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011									
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0057	< 0.0058	< 0.0057	< 0.0057	< 0.0057	< 0.0057
1,2-Dibromoethane	ug/L	0.02		< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061
Laboratory Method EPA 8260									
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	ug/L	200		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,1,2,2-Tetrachloroethane	ug/L			< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	ug/L	5		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	ug/L	7		< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2,3-Trichloropropane	ug/L			< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dibromoethane	ug/L	0.02		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/L	600		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	ug/L	3		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichloropropane	ug/L	5		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	ug/L	75		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Butanone	ug/L			< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Acetone	ug/L			< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

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Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Table 2A
Summary of Groundwater Analytical Results - Shallow
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-29(S)c	MWB-32(S)d	MWB-33(S)d	MWB-34(S)d
Laboratory Method EPA 300.0							
Chloride	mg/L		250	**21**	**39**	**12**	**42**
Laboratory Method EPA 350.1							
Ammonia (N)	ug/L			**450**	**650**	**590**	**730**
Laboratory Method EPA 353.2 (Nitrate (N))							
Nitrate (N)	mg/L	10		< 0.0054	**0.010**	**1.7**	**0.12**
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))							
Nitrate-Nitrite (N)	mg/L	10		< 0.0054	**0.010**	**1.7**	**0.12**
Laboratory Method EPA 6020							
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	**1.7 I**
Barium	ug/L	2000		**24**	**49**	**17**	**4.2 I**
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5		< 0.095	< 0.095	< 0.095	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5	< 2.5
Cobalt	ug/L			**0.27 I**	**0.52**	**0.18 I**	**0.77**
Copper	ug/L		1000	< 1.1	**1.4 I**	**2.5 I**	**21**
Iron	ug/L		300	**760**	**910**	**230**	**140**
Lead	ug/L	15		< 0.2	**0.65 I**	< 0.2	**0.78 I**
Nickel	ug/L	100		**2.2 I**	**2.4 I**	< 2	**6.6**
Selenium	ug/L	50		< 1	< 1	**2.9**	**1.0 I**
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**11000**	**24000**	**16000**	**71000**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	**4.6 I**	**17**	**18**
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	**260**
Laboratory Method EPA 7470							
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011							
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0056	< 0.0057	< 0.0057	< 0.0057
1,2-Dibromoethane	ug/L	0.02		< 0.006	< 0.0061	< 0.0061	< 0.0061
Laboratory Method EPA 8260							
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	ug/L	200		< 0.16	< 0.16	< 0.16	< 0.16
1,1,2,2-Tetrachloroethane	ug/L			< 0.11	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	ug/L	5		< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	ug/L	7		< 0.23	< 0.23	< 0.23	< 0.23
1,2,3-Trichloropropane	ug/L			< 0.23	< 0.23	< 0.23	< 0.23
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dibromoethane	ug/L	0.02		< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/L	600		< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	ug/L	3		< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichloropropane	ug/L	5		< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	ug/L	75		< 0.2	< 0.2	< 0.2	< 0.2
2-Butanone	ug/L			< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5	< 1.5
Acetone	ug/L			< 2.8	< 2.8	< 2.8	< 2.8

Notes:

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Table 2A
Summary of Groundwater Analytical Results - Shallow
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-2(S)b	MWB-3(S)b	MWB-7(S)c	MWB-11(S)c	MWB-12(S)c	MWB-13(S)c
Laboratory Method EPA 8260									
Acrylonitrile	ug/L			< 3	< 3	< 3	< 3	< 3	< 3
Benzene	ug/L	1		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	ug/L			< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Bromomethane	ug/L			< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51
Carbon disulfide	ug/L			< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Carbon tetrachloride	ug/L	3		< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Chlorobenzene	ug/L	100		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chloroethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chloroform	ug/L			< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloromethane	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	ug/L	70		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Dibromochloromethane	ug/L			< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Methylene chloride	ug/L	5		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Styrene	ug/L	100		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	ug/L	3		< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Toluene	ug/L	1000		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,2-Dichloroethene	ug/L	100		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,4-Dichloro-2-butene	ug/L			< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Trichloroethene	ug/L	3		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Vinyl acetate	ug/L			< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Vinyl chloride	ug/L	1		< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Xylenes, Total	ug/L	10000		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Laboratory Method SM18 2540 C									
Residues- Filterable (TDS)	mg/L		500	**22**	**10**	**86**	**78**	**120**	**210**

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits; V - result is qualified because the analyte was detected in both the sample and the associated method blank.

Bold values indicate detections above the laboratory detection limit; Underlined values indicate a WQS exceedance.

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Table 2A
Summary of Groundwater Analytical Results - Shallow
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-17(S)c	MWB-19(S)c	MWB-20(S)c	MWB-21(S)c	MWB-22(S)c	MWB-27(S)c
Laboratory Method EPA 8260									
Acrylonitrile	ug/L			< 3	< 3	< 3	< 3	< 3	< 3
Benzene	ug/L	1		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	ug/L			< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Bromomethane	ug/L			< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51
Carbon disulfide	ug/L			< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Carbon tetrachloride	ug/L	3		< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Chlorobenzene	ug/L	100		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chloroethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chloroform	ug/L			< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloromethane	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	ug/L	70		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Dibromochloromethane	ug/L			< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Methylene chloride	ug/L	5		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Styrene	ug/L	100		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	ug/L	3		< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Toluene	ug/L	1000		< 0.14	< 0.14	< 0.14	< 0.14	**0.26 I**	< 0.14
trans-1,2-Dichloroethene	ug/L	100		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,4-Dichloro-2-butene	ug/L			< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Trichloroethene	ug/L	3		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Vinyl acetate	ug/L			< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Vinyl chloride	ug/L	1		< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Xylenes, Total	ug/L	10000		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Laboratory Method SM18 2540 C									
Residues- Filterable (TDS)	mg/L		500	**86**	**66**	**36**	**30**	**140**	**100**

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits; V - result is qualified because the analyte was detected in both the sample and the associated method blank.

Bold values indicate detections above the laboratory detection limit; Underlined values indicate a WQS exceedance.

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Table 2A
Summary of Groundwater Analytical Results - Shallow
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-29(S)c	MWB-32(S)d	MWB-33(S)d	MWB-34(S)d
Laboratory Method EPA 8260							
Acrylonitrile	ug/L			< 3	< 3	< 3	< 3
Benzene	ug/L	1		< 0.13	< 0.13	< 0.13	< 0.13
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	ug/L			< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	ug/L			< 0.18	< 0.18	< 0.18	< 0.18
Bromomethane	ug/L			< 0.51	< 0.51	< 0.51	< 0.51
Carbon disulfide	ug/L			< 0.23	< 0.23	< 0.23	< 0.23
Carbon tetrachloride	ug/L	3		< 0.18	< 0.18	< 0.18	< 0.18
Chlorobenzene	ug/L	100		< 0.13	< 0.13	< 0.13	< 0.13
Chloroethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33
Chloroform	ug/L			< 0.12	< 0.12	< 0.12	< 0.12
Chloromethane	ug/L			< 0.18	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	ug/L	70		< 0.21	< 0.21	< 0.21	< 0.21
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14
Dibromochloromethane	ug/L			< 0.15	< 0.15	< 0.15	< 0.15
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.16	< 0.16	< 0.16	< 0.16
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13	< 0.13
Methylene chloride	ug/L	5		< 0.21	< 0.21	< 0.21	< 0.21
Styrene	ug/L	100		< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	ug/L	3		< 0.19	< 0.19	< 0.19	< 0.19
Toluene	ug/L	1000		< 0.14	< 0.14	< 0.14	< 0.14
trans-1,2-Dichloroethene	ug/L	100		< 0.26	< 0.26	< 0.26	< 0.26
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14
trans-1,4-Dichloro-2-butene	ug/L			< 0.43	< 0.43	< 0.43	< 0.43
Trichloroethene	ug/L	3		< 0.16	< 0.16	< 0.16	< 0.16
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21
Vinyl acetate	ug/L			< 0.38	< 0.38	< 0.38	< 0.38
Vinyl chloride	ug/L	1		< 0.22	< 0.22	< 0.22	< 0.22
Xylenes, Total	ug/L	10000		< 0.44	< 0.44	< 0.44	< 0.44
Laboratory Method SM18 2540 C							
Residues- Filterable (TDS)	mg/L		500	**46**	**120**	**150**	**570**

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits; V - result is qualified because the analyte was detected in both the sample and the associated method blank.

Bold values indicate detections above the laboratory detection limit; Underlined values indicate a WQS exceedance.

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Table 2B
Summary of Groundwater Analytical Results - Intermediate
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-2(I)b	MWB-3(I)b	MWB-7(I)c	MWB-11(IR)c	MWB-12(I)c	MWB-13(I)c
Laboratory Method EPA 300.0									
Chloride	mg/L		250	**6.2**	**5.5**	**4.6 I**	**4.8 I**	**4.5 I**	**4.6 I**
Laboratory Method EPA 350.1									
Ammonia (N)	ug/L			**41 I**	**45 I**	**44 I**	**47 I**	**56**	**56**
Laboratory Method EPA 353.2 (Nitrate (N))									
Nitrate (N)	mg/L	10		< 0.0054	**0.011**	< 0.0054	< 0.0054	**0.022**	**0.014**
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))									
Nitrate-Nitrite (N)	mg/L	10		< 0.0054	**0.011**	< 0.0054	< 0.0054	**0.022**	**0.014**
Laboratory Method EPA 6020									
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Barium	ug/L	2000		**20**	**27**	**50**	**38**	**48**	**30**
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5		< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Cobalt	ug/L			**0.17 I**	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Iron	ug/L		300	**350**	**810**	**380**	**350**	**310**	**310**
Lead	ug/L	15		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Nickel	ug/L	100		**2.5 I**	< 2	< 2	**2.2 I**	< 2	< 2
Selenium	ug/L	50		< 1	< 1	< 1	< 1	< 1	< 1
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**4000**	**3700**	**3300**	**2900**	**3000**	**2900**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
Laboratory Method EPA 7470									
Mercury	ug/L	2		< 0.091	**0.14 I**	< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011									
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057
1,2-Dibromoethane	ug/L	0.02		< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061
Laboratory Method EPA 8260									
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	ug/L	200		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,1,2,2-Tetrachloroethane	ug/L			< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	ug/L	5		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	ug/L	7		< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2,3-Trichloropropane	ug/L			< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dibromoethane	ug/L	0.02		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/L	600		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	ug/L	3		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichloropropane	ug/L	5		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	ug/L	75		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Butanone	ug/L			< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Acetone	ug/L			< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8
Acrylonitrile	ug/L			< 3	< 3	< 3	< 3	< 3	< 3
Benzene	ug/L	1		< 0.13	< 0.13	< 0.13	< 0.13	**0.14 I**	< 0.13
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	ug/L			< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Bromomethane	ug/L			< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51
Carbon disulfide	ug/L			< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Carbon tetrachloride	ug/L	3		< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Chlorobenzene	ug/L	100		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chloroethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chloroform	ug/L			< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloromethane	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	ug/L	70		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits; V - result is qualified because the analyte was detected in both the sample and the associated method blank; NM - not measured because the well was dry at the time of sampling.

Bold values indicate detections above the laboratory detection limit; Underlined values indicate a WQS exceedance.

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Table 2B
Summary of Groundwater Analytical Results - Intermediate
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-17(I)c	MWB-19(I)c	MWB-27(I)c	MWB-29(I)c	MWB-32(I)d	MWB-34(I)d
Laboratory Method EPA 300.0									
Chloride	mg/L		250	**4.0 I**	**4.5 I**	**4.9 I**	**5.0**	**4.5 I**	**4.5 I**
Laboratory Method EPA 350.1									
Ammonia (N)	ug/L			**46 I**	**57**	**110**	**74**	**67**	**94**
Laboratory Method EPA 353.2 (Nitrate (N))									
Nitrate (N)	mg/L	10		< 0.0054	< 0.0054	**0.11**	< 0.0054	< 0.0054	**0.0081 I**
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))									
Nitrate-Nitrite (N)	mg/L	10		< 0.0054	< 0.0054	**0.11**	< 0.0054	< 0.0054	**0.0081 I**
Laboratory Method EPA 6020									
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Barium	ug/L	2000		**35**	**53**	**48**	**42**	**37**	**49**
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5		< 0.095	**0.19 I**	< 0.095	< 0.095	< 0.095	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Cobalt	ug/L			< 0.15	**0.66**	< 0.15	< 0.15	< 0.15	**0.17 I**
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Iron	ug/L		300	**320**	**490**	**430**	**430**	**350**	**620**
Lead	ug/L	15		< 0.2	**0.29 I**	**0.29 I**	**0.51 I**	**2.2**	**0.96 I**
Nickel	ug/L	100		< 2	**2.2 I**	< 2	**2.0 I**	< 2	< 2
Selenium	ug/L	50		< 1	< 1	< 1	< 1	< 1	< 1
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**3100**	**3200**	**3000**	**3500**	**2800**	**3500**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
Laboratory Method EPA 7470									
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011									
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0057	< 0.0057	< 0.0056	< 0.0057	< 0.0057	< 0.0057
1,2-Dibromoethane	ug/L	0.02		< 0.0061	< 0.0061	< 0.006	< 0.0061	< 0.0061	< 0.0061
Laboratory Method EPA 8260									
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	ug/L	200		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,1,2,2-Tetrachloroethane	ug/L			< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	ug/L	5		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	ug/L	7		< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2,3-Trichloropropane	ug/L			< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dibromoethane	ug/L	0.02		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/L	600		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	ug/L	3		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichloropropane	ug/L	5		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	ug/L	75		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Butanone	ug/L			< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Acetone	ug/L			< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8
Acrylonitrile	ug/L			< 3	< 3	< 3	< 3	< 3	< 3
Benzene	ug/L	1		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	ug/L			< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Bromomethane	ug/L			< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51
Carbon disulfide	ug/L			< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Carbon tetrachloride	ug/L	3		< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Chlorobenzene	ug/L	100		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chloroethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chloroform	ug/L			< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloromethane	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	ug/L	70		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits; V - result is qualified because the analyte was detected in both the sample and the associated method blank; NM - not measured because the well was dry at the time of sampling.

Bold values indicate detections above the laboratory detection limit; Underlined values indicate a WQS exceedance.

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Table 2B
Summary of Groundwater Analytical Results - Intermediate
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-2(I)b	MWB-3(I)b	MWB-7(I)c	MWB-11(IR)c	MWB-12(I)c	MWB-13(I)c
Laboratory Method EPA 8260									
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Dibromochloromethane	ug/L			< 0.15	< 0.15 J	< 0.15 J	< 0.15 J	< 0.15	< 0.15
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Methylene chloride	ug/L	5		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Styrene	ug/L	100		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	ug/L	3		< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Toluene	ug/L	1000		< 0.14	< 0.14	< 0.14	< 0.14	**0.26 I**	< 0.14
trans-1,2-Dichloroethene	ug/L	100		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,4-Dichloro-2-butene	ug/L			< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Trichloroethene	ug/L	3		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Vinyl acetate	ug/L			< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Vinyl chloride	ug/L	1		< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Xylenes, Total	ug/L	10000		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Laboratory Method SM18 2540 C									
Residues- Filterable (TDS)	mg/L		500	**10**	**12**	**18**	**20**	**32**	**30**

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits; V - result is qualified because the analyte was detected in both the sample and the associated method blank; NM - not measured because the well was dry at the time of sampling.

Bold values indicate detections above the laboratory detection limit; Underlined values indicate a WQS exceedance.

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Table 2B
Summary of Groundwater Analytical Results - Intermediate
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-17(I)c	MWB-19(I)c	MWB-27(I)c	MWB-29(I)c	MWB-32(I)d	MWB-34(I)d
Laboratory Method EPA 8260									
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Dibromochloromethane	ug/L			< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Methylene chloride	ug/L	5		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Styrene	ug/L	100		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	ug/L	3		< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Toluene	ug/L	1000		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,2-Dichloroethene	ug/L	100		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,4-Dichloro-2-butene	ug/L			< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Trichloroethene	ug/L	3		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Vinyl acetate	ug/L			< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Vinyl chloride	ug/L	1		< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Xylenes, Total	ug/L	10000		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Laboratory Method SM18 2540 C									
Residues- Filterable (TDS)	mg/L		500	**24**	**24**	**20**	**18**	**48**	**22**

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits; V - result is qualified because the analyte was detected in both the sample and the associated method blank; NM - not measured because the well was dry at the time of sampling.

Bold values indicate detections above the laboratory detection limit; Underlined values indicate a WQS exceedance.

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Table 2C
Summary of Groundwater Analytical Results - Deep
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-7(D)c	MWB-12(D)c	MWB-17(D)c	MWB-19(D)c	MWB-27(D)c
Laboratory Method EPA 300.0								
Chloride	mg/L		250	**4.1 I**	**4.0 I**	**5.3**	**4.2 I**	**4.4 I**
Laboratory Method EPA 350.1								
Ammonia (N)	ug/L			**160**	**240**	**74**	**90**	**170**
Laboratory Method EPA 353.2 (Nitrate (N))								
Nitrate (N)	mg/L	10		**0.0094 I**	< 0.0054	< 0.0054	**0.010**	**0.040**
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))								
Nitrate-Nitrite (N)	mg/L	10		**0.0094 I**	< 0.0054	< 0.0054	**0.010**	**0.040**
Laboratory Method EPA 6020								
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	**4.6**	< 1.3
Barium	ug/L	2000		**89**	**130**	**30**	**110**	**50**
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	**0.87**	< 0.25
Cadmium	ug/L	5		< 0.095	< 0.095	< 0.095	**0.39 I**	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5	**7.5**	< 2.5
Cobalt	ug/L			< 0.15	< 0.15	< 0.15	**0.78**	< 0.15
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	**2.8 I**	**1.7 I**
Iron	ug/L		300	**310**	**1800**	**320**	**4200**	**510**
Lead	ug/L	15		**0.48 I**	< 0.2	< 0.2	**1.6**	< 0.2
Nickel	ug/L	100		< 2	< 2	< 2	**3.8 I**	**2.1 I**
Selenium	ug/L	50		< 1	< 1	< 1	< 1	< 1
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**5000**	**5500**	**3100**	**4200**	**3300**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	< 3.8	< 3.8	**12**	< 3.8
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	**8.9 I**	**13 I**
Laboratory Method EPA 7470								
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011								
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057
1,2-Dibromoethane	ug/L	0.02		< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061
Laboratory Method EPA 8260								
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	ug/L	200		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,1,2,2-Tetrachloroethane	ug/L			< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	ug/L	5		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	ug/L	7		< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2,3-Trichloropropane	ug/L			< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dibromoethane	ug/L	0.02		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/L	600		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	ug/L	3		< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichloropropane	ug/L	5		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	ug/L	75		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Butanone	ug/L			< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Acetone	ug/L			< 2.8	< 2.8	< 2.8	< 2.8	< 2.8
Acrylonitrile	ug/L			< 3	< 3	< 3	< 3	< 3
Benzene	ug/L	1		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	ug/L			< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Bromomethane	ug/L			< 0.51	< 0.51	< 0.51	< 0.51	< 0.51
Carbon disulfide	ug/L			< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Carbon tetrachloride	ug/L	3		< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Chlorobenzene	ug/L	100		< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Chloroethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chloroform	ug/L			< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chloromethane	ug/L			< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	ug/L	70		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits; V - result is qualified because the analyte was detected in both the sample and the associated method blank; NM - not measured because the well was dry at the time of sampling.

Bold values indicate detections above the laboratory detection limit; Underlined values indicate a WQS exceedance.

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Table 2C
Summary of Groundwater Analytical Results - Deep
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-29(D)c	MWB-31(D)b	MWB-32(D)d	MWB-34(D)d
Laboratory Method EPA 300.0							
Chloride	mg/L		250	**5.4**	**5.1**	**5.6**	**4.7 I**
Laboratory Method EPA 350.1							
Ammonia (N)	ug/L			**110**	**180**	**130**	**210**
Laboratory Method EPA 353.2 (Nitrate (N))							
Nitrate (N)	mg/L	10		< 0.0054	< 0.0054	< 0.0054	**0.046**
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))							
Nitrate-Nitrite (N)	mg/L	10		< 0.0054	< 0.0054	< 0.0054	**0.046**
Laboratory Method EPA 6020							
Antimony	ug/L	6		< 2.3	< 2.3	< 2.3	< 2.3
Arsenic	ug/L	10		< 1.3	< 1.3	< 1.3	< 1.3
Barium	ug/L	2000		**48**	**89**	**37**	**110**
Beryllium	ug/L	4		< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5		< 0.095	< 0.095	< 0.095	< 0.095
Chromium	ug/L	100		< 2.5	< 2.5	< 2.5	< 2.5
Cobalt	ug/L			< 0.15	< 0.15	< 0.15	< 0.15
Copper	ug/L		1000	< 1.1	< 1.1	< 1.1	< 1.1
Iron	ug/L		300	**600**	**770**	**460**	**490**
Lead	ug/L	15		< 0.2	**0.50 I**	**0.23 I**	**0.70 I**
Nickel	ug/L	100		< 2	< 2	< 2	< 2
Selenium	ug/L	50		< 1	< 1	< 1	< 1
Silver	ug/L		100	< 0.25	< 0.25	< 0.25	< 0.25
Sodium	ug/L	160000		**3300**	**5900**	**3900**	**6400**
Thallium	ug/L	2		< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			< 3.8	< 3.8	< 3.8	< 3.8
Zinc	ug/L		5000	< 8.3	< 8.3	< 8.3	< 8.3
Laboratory Method EPA 7470							
Mercury	ug/L	2		< 0.091	< 0.091	< 0.091	< 0.091
Laboratory Method EPA 8011							
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.0057	< 0.0057	< 0.0056	< 0.0057
1,2-Dibromoethane	ug/L	0.02		< 0.0061	< 0.0061	< 0.006	< 0.0061
Laboratory Method EPA 8260							
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	ug/L	200		< 0.16	< 0.16	< 0.16	< 0.16
1,1,2,2-Tetrachloroethane	ug/L			< 0.11	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	ug/L	5		< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	ug/L	7		< 0.23	< 0.23	< 0.23	< 0.23
1,2,3-Trichloropropane	ug/L			< 0.23	< 0.23	< 0.23	< 0.23
1,2-Dibromo-3-Chloropropane	ug/L	0.2		< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dibromoethane	ug/L	0.02		< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/L	600		< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	ug/L	3		< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichloropropane	ug/L	5		< 0.17	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	ug/L	75		< 0.2	< 0.2	< 0.2	< 0.2
2-Butanone	ug/L			< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5	< 1.5
Acetone	ug/L			< 2.8	< 2.8	< 2.8	< 2.8
Acrylonitrile	ug/L			< 3	< 3	< 3	< 3
Benzene	ug/L	1		< 0.13	< 0.13	< 0.13	< 0.13
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	ug/L			< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	ug/L			< 0.18	< 0.18	< 0.18	< 0.18
Bromomethane	ug/L			< 0.51	< 0.51	< 0.51	< 0.51
Carbon disulfide	ug/L			< 0.23	< 0.23	< 0.23	< 0.23
Carbon tetrachloride	ug/L	3		< 0.18	< 0.18	< 0.18	< 0.18
Chlorobenzene	ug/L	100		< 0.13	< 0.13	< 0.13	< 0.13
Chloroethane	ug/L			< 0.33	< 0.33	< 0.33	< 0.33
Chloroform	ug/L			< 0.12	< 0.12	< 0.12	< 0.12
Chloromethane	ug/L			< 0.18	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	ug/L	70		< 0.21	< 0.21	< 0.21	< 0.21

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits; V - result is qualified because the analyte was detected in both the sample and the associated method blank; NM - not measured because the well was dry at the time of sampling.

Bold values indicate detections above the laboratory detection limit; Underlined values indicate a WQS exceedance.

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Table 2C
Summary of Groundwater Analytical Results - Deep
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-7(D)c	MWB-12(D)c	MWB-17(D)c	MWB-19(D)c	MWB-27(D)c
Laboratory Method EPA 8260								
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Dibromochloromethane	ug/L			< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Methylene chloride	ug/L	5		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Styrene	ug/L	100		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	ug/L	3		< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Toluene	ug/L	1000		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,2-Dichloroethene	ug/L	100		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
trans-1,4-Dichloro-2-butene	ug/L			< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Trichloroethene	ug/L	3		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Vinyl acetate	ug/L			< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Vinyl chloride	ug/L	1		< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Xylenes, Total	ug/L	10000		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Laboratory Method SM18 2540 C								
Residues- Filterable (TDS)	mg/L		500	**180**	**200**	**40**	**200**	**38**

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits; V - result is qualified because the analyte was detected in both the sample and the associated method blank; NM - not measured because the well was dry at the time of sampling.

Bold values indicate detections above the laboratory detection limit; Underlined values indicate a WQS exceedance.

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Table 2C
Summary of Groundwater Analytical Results - Deep
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	MCL	SMCL	MWB-29(D)c	MWB-31(D)b	MWB-32(D)d	MWB-34(D)d
Laboratory Method EPA 8260							
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14
Dibromochloromethane	ug/L			< 0.15	< 0.15	< 0.15	< 0.15
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L	700		< 0.16	< 0.16	< 0.16	< 0.16
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13	< 0.13
Methylene chloride	ug/L	5		< 0.21	< 0.21	< 0.21	< 0.21
Styrene	ug/L	100		< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	ug/L	3		< 0.19	< 0.19	< 0.19	< 0.19
Toluene	ug/L	1000		< 0.14	< 0.14	< 0.14	< 0.14
trans-1,2-Dichloroethene	ug/L	100		< 0.26	< 0.26	< 0.26	< 0.26
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14	< 0.14
trans-1,4-Dichloro-2-butene	ug/L			< 0.43	< 0.43	< 0.43	< 0.43
Trichloroethene	ug/L	3		< 0.16	< 0.16	< 0.16	< 0.16
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21	< 0.21
Vinyl acetate	ug/L			< 0.38	< 0.38	< 0.38	< 0.38
Vinyl chloride	ug/L	1		< 0.22	< 0.22	< 0.22	< 0.22
Xylenes, Total	ug/L	10000		< 0.44	< 0.44	< 0.44	< 0.44
Laboratory Method SM18 2540 C							
Residues- Filterable (TDS)	mg/L		500	**24**	**200**	**40**	**170**

Notes:

ug/L - micrograms per liter; mg/L - milligrams per liter

MCL - Maximum Contaminant Level; SMCL - Secondary Contaminant Level (FDEP Chapter 62-550)

I - result is qualified because the detection was between method detection limits and practical quantitation limits; V - result is qualified because the analyte was detected in both the sample and the associated method blank; NM - not measured because the well was dry at the time of sampling.

Bold values indicate detections above the laboratory detection limit; Underlined values indicate a WQS exceedance.

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Table 3
Summary of Surface Water Analytical Results
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	ClassIOut	ClassIIIOut	SW-1	SW-2	SW-3
Laboratory Method EPA 1631						
Mercury	ug/L	0.012	0.012	**0.0004 I**	< 0.0002	**0.0074 V**
Laboratory Method EPA 353.2 (Nitrate (N))						
Nitrate (N)	mg/L	10		**0.081**	**0.51**	**1.3**
Laboratory Method EPA 353.2 (Nitrate-Nitrite (N))						
Nitrate-Nitrite (N)	mg/L			**0.081**	**0.51**	**1.3**
Laboratory Method EPA 365.4						
Phosphorus- Total	mg/L			**0.045 I**	< 0.041	**0.20**
Laboratory Method EPA 6020						
Antimony	ug/L	14	4300	< 2.3	< 2.3	**2.7 I**
Arsenic	ug/L	10	50	< 1.3	< 1.3	**2.6**
Barium	ug/L	1000		**55**	**110**	**71**
Beryllium	ug/L	0.0077	0.13	< 0.25	**0.78**	< 0.25
Cadmium	ug/L	Calc	Calc	< 0.095	< 0.095	< 0.095
Chromium	ug/L	Calc	Calc	< 2.5	< 2.5	**12**
Cobalt	ug/L			**0.51**	**0.17 I**	**0.63**
Copper	ug/L	Calc	Calc	**1.5 I**	< 1.1	**9.9**
Iron	ug/L	1000	1000	**1000**	**530**	**2500**
Lead	ug/L	Calc	Calc	**2.1**	< 0.2	**33**
Nickel	ug/L	Calc	Calc	< 2	< 2	**5.9**
Selenium	ug/L	5	5	< 1	< 1	**1.5 I**
Silver	ug/L	0.07	0.07	< 0.25	< 0.25	< 0.25
Thallium	ug/L	1.7	6.3	< 0.5	< 0.5	< 0.5
Vanadium	ug/L			**5.2 I**	**5.7 I**	**16**
Zinc	ug/L	Calc	Calc	**18 I**	< 8.3	**43**
Laboratory Method EPA 8011						
1,2-Dibromo-3-Chloropropane	ug/L			< 0.0057	< 0.0056	< 0.0056
1,2-Dibromoethane	ug/L			< 0.0061	< 0.006	< 0.006
Laboratory Method EPA 8260						
1,1,1,2-Tetrachloroethane	ug/L			< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	ug/L			< 0.16	< 0.16	< 0.16
1,1,2,2-Tetrachloroethane	ug/L	0.17	10.8	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	ug/L			< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	ug/L			< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	ug/L	7	3.2	< 0.23	< 0.23	< 0.23
1,2,3-Trichloropropane	ug/L			< 0.23	< 0.23	< 0.23
1,2-Dibromo-3-Chloropropane	ug/L			< 0.31	< 0.31	< 0.31
1,2-Dibromoethane	ug/L			< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/L			< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	ug/L			< 0.15	< 0.15	< 0.15
1,2-Dichloropropane	ug/L			< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	ug/L			< 0.2	< 0.2	< 0.2
2-Butanone	ug/L			< 2.6	< 2.6	< 2.6
2-Hexanone	ug/L			< 1	< 1	< 1
4-Methyl-2-pentanone	ug/L			< 1.5	< 1.5	< 1.5
Acetone	ug/L			< 2.8	< 2.8	< 2.8
Acrylonitrile	ug/L			< 3	< 3	< 3
Benzene	ug/L	1.18	71.28	< 0.13	< 0.13	< 0.13
Bromochloromethane	ug/L			< 0.21	< 0.21	< 0.21
Bromodichloromethane	ug/L	0.27	22	< 0.17	< 0.17	< 0.17
Bromoform	ug/L	4.3	360	< 0.18	< 0.18	< 0.18
Bromomethane	ug/L			< 0.51	< 0.51	< 0.51
Carbon disulfide	ug/L			< 0.23	< 0.23	< 0.23
Carbon tetrachloride	ug/L	3	4.42	< 0.18	< 0.18	< 0.18
Chlorobenzene	ug/L			< 0.13	< 0.13	< 0.13
Chloroethane	ug/L			< 0.33	< 0.33	< 0.33
Chloroform	ug/L	5.67	470.8	< 0.12	< 0.12	< 0.12
Chloromethane	ug/L	5.67	470.8	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	ug/L			< 0.21	< 0.21	< 0.21
cis-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14

Notes:

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; B = Results based on count outside range; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Bold values indicate detections above the associated reporting limit

WQS = Water Quality Standard, Class I (potable) and Class III (freshwater) (FDEP Chapter 62-302)

Underlined values indicate a WQS exceedance.

Table 3
Summary of Surface Water Analytical Results
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Unit	ClassIOut	ClassIIIOut	SW-1	SW-2	SW-3
Laboratory Method EPA 8260						
Dibromochloromethane	ug/L	0.41	34	< 0.15	< 0.15	< 0.15
Dibromomethane	ug/L			< 0.2	< 0.2	< 0.2
Ethylbenzene	ug/L			< 0.16	< 0.16	< 0.16
Iodomethane	ug/L			< 0.13	< 0.13	< 0.13
Methylene chloride	ug/L	4.65	1580	< 0.21	< 0.21	< 0.21
Styrene	ug/L			< 0.12	< 0.12	< 0.12
Tetrachloroethene	ug/L	3	8.85	< 0.19	< 0.19	< 0.19
Toluene	ug/L			< 0.14	< 0.14	< 0.14
trans-1,2-Dichloroethene	ug/L			< 0.26	< 0.26	< 0.26
trans-1,3-Dichloropropene	ug/L			< 0.14	< 0.14	< 0.14
trans-1,4-Dichloro-2-butene	ug/L			< 0.43	< 0.43	< 0.43
Trichloroethene	ug/L	3	80.7	< 0.16	< 0.16	< 0.16
Trichlorofluoromethane	ug/L			< 0.21	< 0.21	< 0.21
Vinyl acetate	ug/L			< 0.38	< 0.38	< 0.38
Vinyl chloride	ug/L			< 0.22	< 0.22	< 0.22
Xylenes, Total	ug/L			< 0.44	< 0.44	< 0.44
Laboratory Method FDEP DEP-SOP						
Ammonia- Un-ionized (NH3)	ug/L	20	20	< 0.28	< 0.28	**6.1**
Laboratory Method SM18 10200 H						
Chlorophyll a	ug/L			< 0.5	**0.53**	**2.1**
Laboratory Method SM18 2340 B						
Hardness- Calculated	mg/L			**26**	**12**	**130**
Laboratory Method SM18 2540 C						
Residues- Filterable (TDS)	mg/L			**160**	**54**	**350**
Laboratory Method SM18 2540 D						
Residues- Nonfilterable (TSS)	mg/L			**1.6**	**6.4**	**45**
Laboratory Method SM18 4500-P F						
Orthophosphate (P)	mg/L			**0.0045 I**	**0.0065 I**	**0.069**
Laboratory Method SM18 5210 B						
BOD	mg/L			< 6	< 6	< 6
Laboratory Method SM18 5220 D						
Chemical Oxygen Demand	mg/L			**150**	**46**	**48**
Laboratory Method SM18 5310 C						
Carbon- Total Organic	mg/L			**57**	**19**	**15**
Laboratory Method SM18 9222 D (MF)						
Coliform Fecal	CFU/100 mL	800	800	**32 B**	**1188 B**	**2440 B**
Laboratory Method Total Nitrogen						
Nitrogen- Total	mg/L			**1.3**	**1.1**	**3.4**

Notes:

ug/l = micrograms per liter; mg/l = milligrams per liter; J = Estimated value; B = Results based on count outside range; I = Reported value between method detection limit and practical quantitation limit; V = Analyte detected in sample and method blank

Calc. indicates standard calculated based on sample hardness (see Table 5 for calculated values and comparison).

Bold values indicate detections above the associated reporting limit

WQS = Water Quality Standard, Class I (potable) and Class III (freshwater) (FDEP Chapter 62-302)

Underlined values indicate a WQS exceedance.

TABLE 4
Groundwater and Surface Water Field Parameter Summary
Trail Ridge Landfill, Jacksonville, Florida

Well ID	pH	Dissolved Oxygen	Specific Conductivity	Temperature	Turbidity	Color	Sheen
	(SU)	(mg/L)	(uS/cm)	(°C)	(NTU)	(by observation)	
Drinking Water SMCL:	6.5 to 8.5	--	--	--	--	--	--
Surface Water Class I/III :	Vary 1 Unit	<5.0	1,275 or 50%	--	29 > BG	--	--
Shallow Wells							
MWB-2(S)	4.31	1.0	52	18.9	3.96	None	None
MWB-3(S)	3.95	0.7	47	19.5	3.52	None	None
MWB-7(S)	4.62	0.0	135	21.6	14.04	Slightly Brown	None
MWB-11(S)	3.74	0.0	145	21.5	1.89	None	None
MWB-12(S)	5.45	0.5	157	22.2	36.75	Brown Tint	None
MWB-13(S)	5.61	0.9	283	17.1	24.34	Brown Tint	None
MWB-17(S)	5.29	0.5	103	21.7	20.43	Brown Tint	None
MWB-19(S)	4.01	0.0	82	22.1	8.16	Slightly Yellow	None
MWB-20(S)	4.20	0.0	62	19.7	2.51	None	None
MWB-21(S)	4.82	0.0	49	21.6	3.91	Very Slightly Yellow	None
MWB-22(S)	5.77	0.2	210	21.8	3.7	None	None
MWB-27(S)	5.33	0.0	121	17.4	10.25	Light Brown	None
MWB-29(S)	4.37	0.3	94	17.9	1.14	None	None
MWB-32(S)	4.88	0.4	235	21.1	17.43	Brown Tint	None
MWB-33(S)	5.41	0.2	226	20.8	18.07	Slightly Yellow/Brown	None
MWB-34(S)	6.23	0.3	791	19.6	3.09	Slightly Yellow	None
Intermediate Wells							
MWB-2(I)	4.58	0.4	29	20.6	1.43	None	None
MWB-3(I)	4.16	0.0	30	21.1	2.61	None	None
MWB-7(I)	4.76	0.0	31	22.7	2.73	None	None
MWB-11(IR)	4.71	0.0	17	23.6	5.03	Light Brown	None
MWB-12(I)	5.12	0.3	24	24.6	2.16	None	None
MWB-13(I)	4.97	0.6	25	24.9	3.49	None	None
MWB-17(I)	4.52	0.0	15	22.4	1.12	None	None
MWB-19(I)	4.82	0.0	3	22.0	4.29	None	None
MWB-27(I)	5.37	0.3	27	19.4	5.05	None	None
MWB-29(I)	4.96	0.3	30	20.6	11.8	None	None
MWB-32(I)	5.18	0.3	21	21.2	19.37	Slighty White	None
MWB-34(I)	5.18	0.1	22	22.9	4.2	None	None
Deep Wells							
MWB-7(D)	7.51	0.0	325	22.1	1.78	None	None
MWB-12(D)	7.04	0.0	362	24.0	5.65	None	None
MWB-17(D)	5.19	0.0	35	22.4	0.51	None	None
MWB-19(D)	7.31	0.0	325	21.9	6.62	None	None
MWB-27(D)	5.75	0.1	58	18.9	0.44	None	None
MWB-29(D)	5.44	0.0	54	20.4	2.02	None	None
MWB-31(D)	7.15	0.0	337	22.4	6.33	None	None
MWB-32(D)	5.68	0.4	70	21.1	3.7	None	None
MWB-34(D)	7.13	0.2	390	22.7	1.23	None	None
Surface Water							
SW-1	4.83	5.0	99	14.7	8.56	Yellow Tint	None
SW-2	4.14	6.2	64	17.0	9.77	Yellow Tint	None
SW-3	7.28	5.6	264	17.4	156.3	Light Tan	None

Notes:

SU - standard units; mg/L - milligrams per liter; uS/cm - microSiemens per centimeter ; NTU - nephelometric turbidity unit; BG - background level
SMCL - secondary maximum contaminant level drinking water standard provided in F.A.C. Chapter 62-550
Class I and III surface water quality standards provided in F.A.C. Chapter 62-302
Underlined values indicate a WQS exceedance.
Measurements collected by ProTech in February 2013.

Golder Associates

TABLE 5
Surface Water Quality Standard Calculations
Trail Ridge Landfill, Jacksonville, Florida

Parameter	Units	WQS Class I & Class III	SW-1		SW-2		SW-3		
			26		12 (25*)		130		Total Hardness [1]
			3.26		3.22		4.87		lnH [2]
			Result	Standard	Result	Standard	Result	Standard	
Cadmium	ug/L	Measured ≤ $e^{(0.7409[lnH]-4.719)}$	<0.095	0.1	<0.095	0.10	<0.095	0.3	
Chromium	ug/L	Measured ≤ $e^{(0.819[lnH]+0.6848)}$	<2.5	28.6	<2.5	27.7	**12**	106.8	
Copper	ug/L	Measured ≤ $e^{(0.8545[lnH]-1.702)}$	**1.5 I**	3.0	<1.1	2.9	**9.9**	11.7	
Lead	ug/L	Measured ≤ $e^{(1.273[lnH]- 4.705)}$	**2.1**	0.6	<0.2	0.5	**33**	4.4	
Nickel	ug/L	Measured ≤ $e^{(0.846[lnH]+0.0584)}$	<2	16.7	<2	16.1	**5.9**	65.1	
Zinc	ug/L	Measured ≤ $e^{(0.8473[lnH]+0.884)}$	**18 I**	38.3	<8.3	37.0	**43**	149.6	

Notes:

ug/L - micrograms per liter

WQS - Water Quality Standard, Class I (potable), Class III (freshwater) provided in FDEP Chapter 62-302

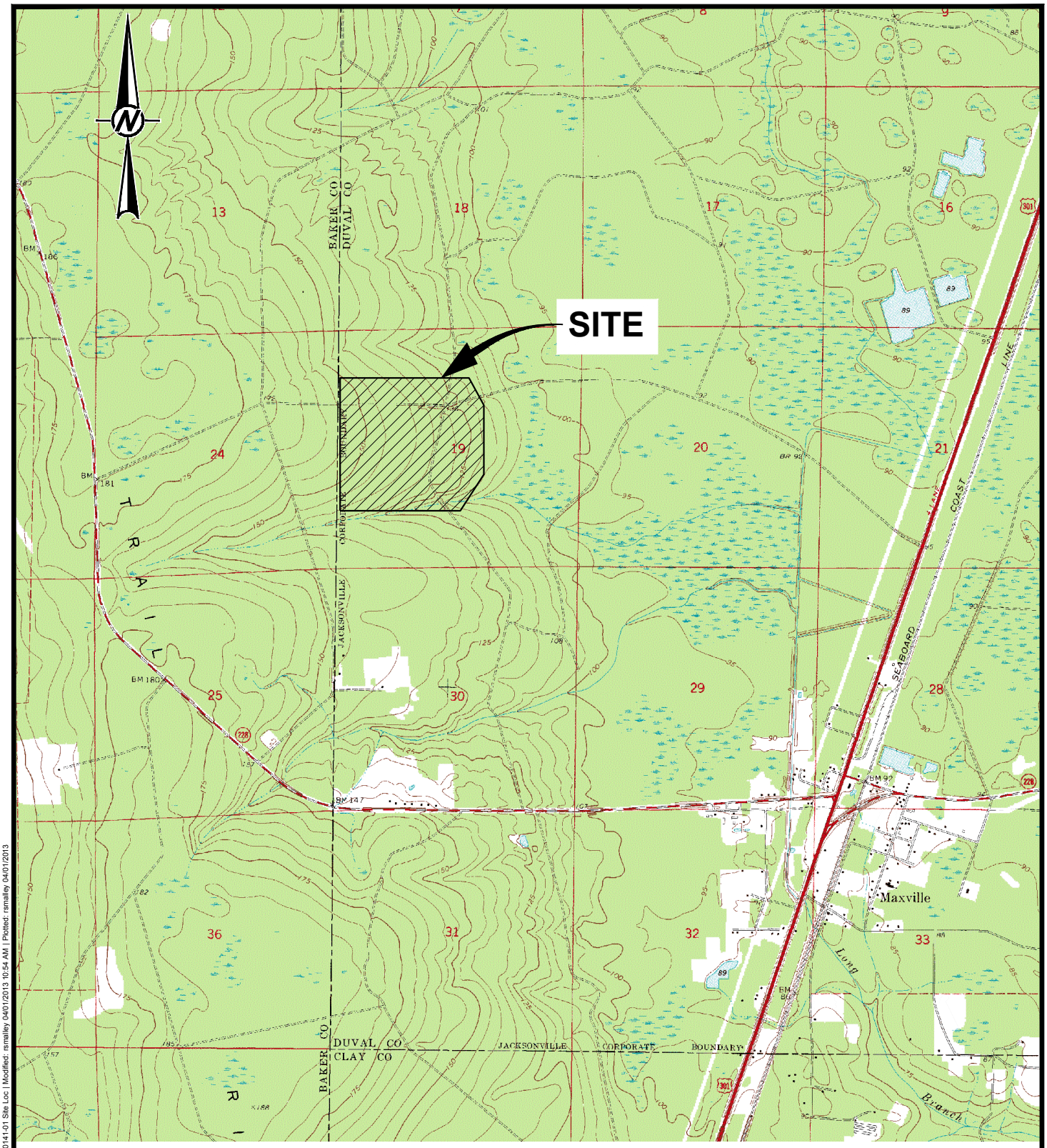
I - result is qualified because the detection was between method detection limits and practical quantitation limits.

Bold values indicate detections above the laboratory detection limit; Underlined values indicate a WQS exceedance.

[1] - Total mesured total hardness (H) is reported in milligrams/L of CaCO3 in the Test America laboratory report

[2] - "ln H" means the natural logarithm of total hardness expressed as milligrams/L of CaCO3

FIGURES



REFERENCES

USGS 7.5 MINUTE QUADRANGLE; MAXVILLE, FL 1970 (PHOTOINSPECTED 1984).

Golder Associates
3730 Chamblee Tucker Road
Atlanta, Georgia 30341
Tel: 770/496-1893 Fax: 770/934-9476
COA No. 1670

0 1500 3000 4500
SCALE FEET

REV	DATE	REVISION DESCRIPTION	DES	CADD	CHK	RVW

PROJECT

WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE

SITE LOCATION

PROJECT No.		11390141	FILE No.	11390141-01 Site Loc	
DESIGN	-	-	SCALE	AS SHOWN	
CADD	RJC	2013-03-22	FIGURE		
CHECK	MJS	2013-03-22		1	
REVIEW	KSB	2013-03-22			

Golder Associates

G:\Waste Management\11390141 Trail Ridge\11390141-01 Site Loc.dwg | Layout: 11390141-01 Site Loc | Modified: rsmalley 04/01/2013 10:54 AM | Plotted: rsmalley 04/01/2013

N 2,145,000
N 2,144,000
N 2,143,000
N 2,142,000
N 2,141,000
E 325,000
E 326,000
E 327,000
E 328,000
E 329,000

SW-2
MWB-17(S)
MWB-17(I)
MWB-17(D)
MWB-19(S)
MWB-19(I)
MWB-19(D)
MWB-7(S)
MWB-7(I)
MWB-7(D)
RETENTION POND
MWB-20(S)
MWB-3(I)
MWB-3(S)
SW-1
LEACHATE CONTAINMENT AREA
MWB-11(IR)
MWB-11(S)
MWB-21(S)
STORAGE
STORAGE PILE
STORAGE AREA
MWB-12(S)
MWB-12(D)
MWB-12(I)
EXISTING DISPERSION POND
MWB-22(S)
MWB-31(D)
MWB-13(S)
MWB-13(I)
SW-3
MWB-34(S)
MWB-34(I)
MWB-34(D)
EXISTING STORMWATER POND
MWB-33(S)
MWB-32(D)
MWB-32(I)
MWB-32(S)
MWB-27(I)
MWB-29(D)
MWB-29(I)
MWB-27(S)
MWB-29(S)
MWB-27(D)
STORAGE AREA
MWB-2(S)
MWB-2(I)

0 200 400 600
SCALE FEET

LEGEND

PHASE BOUNDARY	
⊕ MWB-2(S)	SHALLOW MONITORING WELL
◒ MWB-2(I)	INTERMEDIATE MONITORING WELL
● MWB-7(D)	DEEP MONITORING WELL
▲ SW-1	SURFACE WATER MONITORING POINT

REFERENCES

1. BASE MAP PROVIDED BY WASTE MANAGEMENT, INC. OF FLORIDA, DATE OF PHOTOGRAPHY 01/12/11.

2. MONITORING WELLS, SURFACE WATER MONITORING POINTS AND SITE FEATURES FROM GROUNDWATER CONTOUR MAPS BY HDR ENGINEERING, INC., DATED 07/20/10.

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COA No. 1670

PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
SITE LAYOUT AND SAMPLING LOCATIONS

PROJECT No.		11390141	FILE No 11390141-02 Site-Sample Loc
DESIGN	-	-	SCALE AS SHOWN
CADD	RJC	2013-03-22	FIGURE
CHECK	MJS	2013-03-22	2
REVIEW	KSB	2013-03-22	

G:\Waste Management\11390141 Trail Ridge\11390141-02 Site-Sample Loc.dwg | Layout: 11390141-02 Site-Sample Locations | Modified: rsmalley 04/01/2013 10:58 AM | Plotted: rsmalley 04/01/2013

N 2,145,000
N 2,144,000
N 2,143,000
N 2,142,000
N 2,141,000
E 325,000
E 326,000
E 327,000
E 328,000
E 329,000

MWB-3(S) 145.36
MWB-17(S) 132.71
MWB-19(S) 120.12
MWB-7(S) 115.08
MWB-20(S) 113.56
MWB-11(S) 107.76
MWB-21(S) 112.08
MWB-12(S) 113.76
MWB-22(S) 114.71
MWB-13(S) 110.98
MWB-34(S) 116.53
MWB-33(S) 115.74
MWB-32(S) 116.71
MWB-27(S) 122.36
MWB-29(S) 130.51
MWB-2(S) 137.89

SW-1
SW-2
SW-3

RETENTION POND
LEACHATE CONTAINMENT AREA
EXISTING DISPERSION POND
EXISTING STORMWATER POND
STORAGE AREA
STORAGE PILE

0 200 400 600
SCALE FEET

LEGEND

PHASE BOUNDARY	
MWB-2(S)	SHALLOW MONITORING WELL
SW-1	SURFACE WATER MONITORING POINT
	POTENTIOMETRIC CONTOUR (FT. MSL)
113.76	GROUNDWATER ELEVATION (FT. MSL)

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON FEBRUARY 27, 2013.

REFERENCES

1. BASE MAP PROVIDED BY WASTE MANAGEMENT, INC. OF FLORIDA, DATE OF PHOTOGRAPHY 01/12/11.

2. MONITORING WELLS, SURFACE WATER MONITORING POINTS AND SITE FEATURES FROM GROUNDWATER CONTOUR MAPS BY HDR ENGINEERING, INC., DATED 07/20/10.

Golder Associates
3730 Chamblee Tucker Road
Atlanta, Georgia 30341
Tel: 770/496-1893 Fax: 770/934-9476
COA No. 1670

PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
FEBRUARY 2013 SHALLOW SURFICIAL AQUIFER POTENTIOMETRIC MAP

PROJECT No.		11390141	FILE No	11390141-03 Shallow 2013-02	
DESIGN	SSG	2013-03-22	SCALE	AS SHOWN	
CADD	RJC	2013-03-22	FIGURE		
CHECK	MJS	2013-03-22		3	
REVIEW	KSB	2013-03-22			

G:\Waste Management\11390141 Trail Ridge\Semi-Annual Pot Maps\2013-02\11390141-03 Shallow 2013-02.dwg | Layout: 11390141-03 Shallow 2013-02 | Modified: rsmalley 04/08/2013 1:15 PM | Plotted: rsmalley 04/08/2013

N 2,145,000
N 2,144,000
N 2,143,000
N 2,142,000
N 2,141,000
E 325,000
E 326,000
E 327,000
E 328,000
E 329,000
MAGNETIC NORTH

MWB-17(I) 135.18
MWB-19(I) 120.95
MWB-7(I) 118.17
MWB-3(I) 138.61
MWB-11(IR) 109.19
MWB-12(I) 117.40
MWB-13(I) 116.20
MWB-34(I) 117.61
MWB-32(I) 118.21
MWB-29(I) 133.23
MWB-27(I) 123.61
MWB-2(I) 136.89

SW-1
SW-2
SW-3

135
130
125
120
115
110

LEACHATE CONTAINMENT AREA
RETENTION POND
EXISTING DISPERSION POND
EXISTING STORMWATER POND
STORAGE AREA
STORAGE PILE

0 200 400 600
SCALE FEET

LEGEND

PHASE BOUNDARY	
MWB-2(I)	INTERMEDIATE MONITORING WELL
SW-1	SURFACE WATER MONITORING POINT
POTENTIOMETRIC CONTOUR (FT. MSL)	
117.40	GROUNDWATER ELEVATION (FT. MSL)

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON FEBRUARY 27, 2013.

REFERENCES

1. BASE MAP PROVIDED BY WASTE MANAGEMENT, INC. OF FLORIDA, DATE OF PHOTOGRAPHY 01/12/11.

2. MONITORING WELLS, SURFACE WATER MONITORING POINTS AND SITE FEATURES FROM GROUNDWATER CONTOUR MAPS BY HDR ENGINEERING, INC., DATED 07/20/10.

Golder Associates
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COA No. 1670

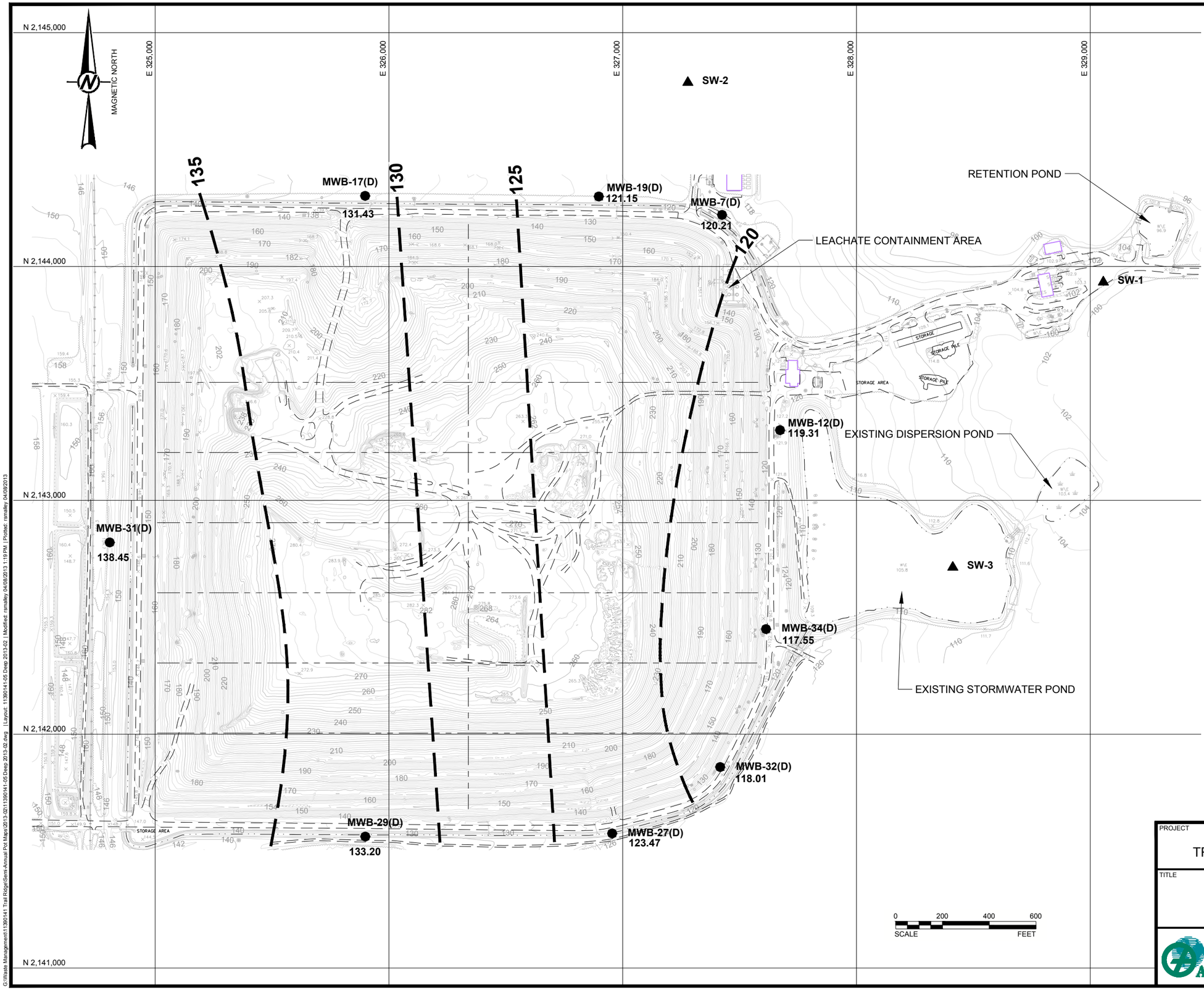
PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
FEBRUARY 2013
INTERMEDIATE SURFICIAL AQUIFER
POTENTIOMETRIC MAP

PROJECT No.		11390141	FILE	11390141-04 Intermediate 2013-02
DESIGN	SSG	2013-03-22	SCALE	AS SHOWN
CADD	RJC	2013-03-22	FIGURE	4
CHECK	MJS	2013-03-22		
REVIEW	KSB	2013-03-22		

Golder Associates

G:\Waste Management\11390141 Trail Ridge\Semi-Annual Pot Maps\2013-02\11390141-04 Intermediate 2013-02.dwg | Layout: 11390141-04 Intermediate 2013-02 | Modified: rsmalley 04/09/2013 9:48 AM | Plotted: rsmalley 04/09/2013



LEGEND

——— - - - ———	PHASE BOUNDARY
● MWB-7(D)	DEEP MONITORING WELL
▲ SW-1	SURFACE WATER MONITORING POINT
— — — — —	POTENTIOMETRIC CONTOUR (FT. MSL)
117.55	GROUNDWATER ELEVATION (FT. MSL)

NOTES

1. WATER LEVELS MEASURED BY PROTECH ON FEBRUARY 27, 2013.

REFERENCES

1. BASE MAP PROVIDED BY WASTE MANAGEMENT, INC. OF FLORIDA, DATE OF PHOTOGRAPHY 01/12/11.

2. MONITORING WELLS, SURFACE WATER MONITORING POINTS AND SITE FEATURES FROM GROUNDWATER CONTOUR MAPS BY HDR ENGINEERING, INC., DATED 07/20/10.

Golder Associates
3730 Chamblee Tucker Road
Atlanta, Georgia 30341
Tel: 770/496-1893 Fax: 770/934-9476
COA No. 1670

PROJECT
WASTE MANAGEMENT
TRAIL RIDGE LANDFILL / JACKSONVILLE, FL

TITLE
FEBRUARY 2013
DEEP SURFICIAL AQUIFER
POTENTIOMETRIC MAP

PROJECT No.		11390141	FILE No.	11390141-05 Deep 2013-02
DESIGN	SSG	2013-03-22	SCALE	AS SHOWN
CADD	RJC	2013-03-22	FIGURE	5
CHECK	MJS	2013-03-22		
REVIEW	KSB	2013-03-22		

G:\Waste Management\11390141 Trail Ridge\Semi-Annual Pot Maps\2013-02\11390141-05 Deep 2013-02.dwg | Layout: 11390141-05 Deep 2013-02 | Modified: rsmalley 04/08/2013 1:19 PM | Plotted: rsmalley 04/08/2013

APPENDIX A
INSTRUMENT CALIBRATION FIELD RECORDS AND WELL DEVELOPMENT FORMS

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI 9828 INSTRUMENT # 725490

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☒ pH ☐ ORP

☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A HANNA CAL. SOLUTION 7.01 (std) EXP: 04/2013

Standard B HANNA CAL SOLUTION 4.01 (std) EXP: 04/2013

Standard C HANNA CAL. SOLUTION 10.01 (std) EXP: 04/2013

DATE (y/m/d)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
13/02/27	0630	A	7.01	AUTO CAL	-	YES	INIT	DA
13/02/27	0630	B	4.01	AUTO CAL	-	YES	INIT	DA
13/02/27	0630	C	10.01	AUTO CAL	-	YES	INIT	DA
13/02/28	0630	A	7.01	AUTO CAL	-	YES	CONT	DA
"	"	B	4.01	"	-	YES	CONT	DA
"	"	C	10.01	"	-	YES	CONT	DA
13/02/29	0700	A	7.01	AUTO CAL	-	YES	CONT	DA
"	"	B	4.01	"	-	YES	CONT	DA
"	"	C	10.01	"	-	YES	CONT	DA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HF SCIENTIFIC MICRO TPI INSTRUMENT # 108080

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1000 NTU HF SCIENTIFIC LOT# 11014 EXP: OCT 2013

Standard B 10.0 NTU HF SCIENTIFIC LOT# 11013 EXP: OCT 2013

Standard C 0.02 NTU HF SCIENTIFIC LOT# 11004 EXP: OCT 2013

DATE (y/m/d)	TIME (h:m:s)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	%DEV.	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
13/02/27	0630	A	1000	AUTO CAL	-	YES	INIT	DA
13/02/27	0630	B	10	AUTO CAL	-	YES	INIT	DA
13/02/27	0630	C	0.02	AUTO CAL	-	YES	INIT	DA
13/02/28	0630	A	1000	AUTO CAL	-	YES	CONT	DA
"	"	B	10	"	-	YES	CONT	DA
"	"	C	0.02	"	-	YES	CONT	DA
13/02/29	0700	A	1000	AUTO CAL	-	YES	CONT	DA
"	"	B	10	"	-	YES	CONT	DA
"	"	C	0.02	"	-	YES	CONT	DA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI9828 INSTRUMENT # 725490

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP

☐ TURBIDITY ☐ RESIDUAL Cl ☒ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A SATURATED AIR

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
13/02/27	0630	A	8.514	8.48	0.03	Yes	INIT	DA
13/02/28	0630	A	8.546	8.50	0.05	Yes	CONT	DA
13/02/29	0700	A	8.482	8.41	0.07	Yes	CONT	DA

Table FS 2200-2
Dissolved Oxygen Saturation

TEMP	D.O.	mg/L	TEMP	D.O.	mg/L	TEMP	D.O.	mg/L	TEMP	D.O.	mg/L
deg C	SAT.	20%	deg C	SAT.	20%	deg C	SAT.	20%	deg C	SAT.	20%
15.0	10.084	2.017	19.0	9.276	1.855	23.0	8.578	1.716	27.0	7.968	1.594
15.1	10.062	2.012	19.1	9.258	1.852	23.1	8.562	1.712	27.1	7.954	1.591
15.2	10.040	2.008	19.2	9.239	1.848	23.2	8.546	1.709	27.2	7.940	1.588
15.3	10.019	2.004	19.3	9.220	1.844	23.3	8.530	1.706	27.3	7.926	1.585
15.4	9.997	1.999	19.4	9.202	1.840	23.4	8.514	1.703	27.4	7.912	1.582
15.5	9.976	1.995	19.5	9.184	1.837	23.5	8.498	1.700	27.5	7.898	1.580
15.6	9.955	1.991	19.6	9.165	1.833	23.6	8.482	1.696	27.6	7.884	1.577
15.7	9.934	1.987	19.7	9.147	1.829	23.7	8.466	1.693	27.7	7.870	1.574
15.8	9.912	1.982	19.8	9.129	1.826	23.8	8.450	1.690	27.8	7.856	1.571
15.9	9.891	1.978	19.9	9.111	1.822	23.9	8.434	1.687	27.9	7.842	1.568
16.0	9.870	1.974	20.0	9.092	1.818	24.0	8.418	1.684	28.0	7.828	1.566
16.1	9.849	1.970	20.1	9.074	1.815	24.1	8.403	1.681	28.1	7.814	1.563
16.2	9.829	1.966	20.2	9.056	1.811	24.2	8.387	1.677	28.2	7.800	1.560
16.3	9.808	1.962	20.3	9.039	1.808	24.3	8.371	1.674	28.3	7.786	1.557
16.4	9.787	1.957	20.4	9.021	1.804	24.4	8.356	1.671	28.4	7.773	1.555
16.5	9.767	1.953	20.5	9.003	1.801	24.5	8.340	1.668	28.5	7.759	1.552
16.6	9.746	1.949	20.6	8.985	1.797	24.6	8.325	1.665	28.6	7.745	1.549
16.7	9.726	1.945	20.7	8.968	1.794	24.7	8.309	1.662	28.7	7.732	1.546
16.8	9.705	1.941	20.8	8.950	1.790	24.8	8.294	1.659	28.8	7.718	1.544
16.9	9.685	1.937	20.9	8.932	1.786	24.9	8.279	1.656	28.9	7.705	1.541
17.0	9.665	1.933	21.0	8.915	1.783	25.0	8.263	1.653	29.0	7.691	1.538
17.1	9.645	1.929	21.1	8.898	1.780	25.1	8.248	1.650	29.1	7.678	1.536
17.2	9.625	1.925	21.2	8.880	1.776	25.2	8.233	1.647	29.2	7.664	1.533
17.3	9.605	1.921	21.3	8.863	1.773	25.3	8.218	1.644	29.3	7.651	1.530
17.4	9.585	1.917	21.4	8.846	1.769	25.4	8.203	1.641	29.4	7.638	1.528
17.5	9.565	1.913	21.5	8.829	1.766	25.5	8.188	1.638	29.5	7.625	1.525
17.6	9.545	1.909	21.6	8.812	1.762	25.6	8.173	1.635	29.6	7.611	1.522
17.7	9.526	1.905	21.7	8.794	1.759	25.7	8.158	1.632	29.7	7.598	1.520
17.8	9.506	1.901	21.8	8.777	1.755	25.8	8.143	1.629	29.8	7.585	1.517
17.9	9.486	1.897	21.9	8.761	1.752	25.9	8.128	1.626	29.9	7.572	1.514
18.0	9.467	1.893	22.0	8.744	1.749	26.0	8.114	1.623	30.0	7.559	1.512
18.1	9.448	1.890	22.1	8.727	1.745	26.1	8.099	1.620	30.1	7.546	1.509
18.2	9.428	1.886	22.2	8.710	1.742	26.2	8.084	1.617	30.2	7.533	1.507
18.3	9.409	1.882	22.3	8.693	1.739	26.3	8.070	1.614	30.3	7.520	1.504
18.4	9.390	1.878	22.4	8.677	1.735	26.4	8.055	1.611	30.4	7.507	1.501
18.5	9.371	1.874	22.5	8.660	1.732	26.5	8.040	1.608	30.5	7.494	1.499
18.6	9.352	1.870	22.6	8.644	1.729	26.6	8.026	1.605	30.6	7.481	1.496
18.7	9.333	1.867	22.7	8.627	1.725	26.7	8.012	1.602	30.7	7.468	1.494
18.8	9.314	1.863	22.8	8.611	1.722	26.8	7.997	1.599	30.8	7.456	1.491
18.9	9.295	1.859	22.9	8.595	1.719	26.9	7.983	1.597	30.9	7.443	1.489

Derived using the formula in Standard Methods for the Examination of Water and Wastewater, Page 4-101, 18th Edition, 1992

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI 9828 INSTRUMENT # 725490

PARAMETER: *[check only one]*

☐ TEMPERATURE ☒ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP

☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 84 µS/cm PINE ENVIRONMENTAL: EXP - 10/2013 LOT# ZAJ359

Standard B 1413 µS/cm PINE ENVIRONMENTAL: EXP - 10/2017 LOT# 5102

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
13/02/26	0630	A	84	AUTO CAL	-	YES	INIT	DA
13/02/27	0630	B	1413	AUTO CAL	-	YES	INIT	DA
13/02/28	0630	A	84	AUTO CAL	-	YES	CONT	DA
"	"	B	1413	"	-	YES	CONT	DA
13/02/29	0700	A	84	AUTO CAL	-	YES	CONT	DA
"	"	B	1413	"	-	YES	CONT	DA

APPENDIX B
LABORATORY ANALYTICAL REPORTS, CHAIN-OF-CUSTODY FORMS, AND GROUNDWATER COLLECTION FORMS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Tel: (850)878-3994

TestAmerica Job ID: 640-42469-1
Client Project/Site: Trail Ridge Landfill

For:
Golder Associates Inc.
3730 Chamblee Tucker Road
Atlanta, Georgia 30341

Attn: Mr. Mike Smilley

Authorized for release by:
3/26/2013 3:17:49 PM

Amy Marks
Project Manager II
amy.marks@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary 246
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Chain of Custody 263
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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
J	Estimated value; value may not be accurate.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
J	Estimated value; value may not be accurate.

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	Estimated value; value may not be accurate.
V	Indicates the analyte was detected in both the sample and the associated method blank.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	Estimated value; value may not be accurate.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 640-42469-1

Laboratory: TestAmerica Tallahassee

Narrative

Job Narrative
640-42469-1

Comments
No additional comments.

Receipt
The samples were received on 2/28/2013 8:00 AM, 3/1/2013 8:00 AM and 3/2/2013 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 1.1º C, 1.1º C, 1.2º C, 1.2º C, 1.2º C, 1.8º C, 1.8º C, 1.8º C, 2.0º C and 2.0º C.

Except:

The sample dates listed on the Chain-of-Custody (COC) received with the samples on 3/2/2013 were incorrectly recorded as 2/29/2013. The sampler was contacted regarding this discrepancy and verified that the correct sample date for these samples was 3/1/2013.

GC/MS VOA
Method 8260C: The method blank for batch 99918 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the practical quantitation limit (PQL); therefore, re-analysis of samples was not performed. Any associated sample detections are qualified "V".

Method 8260C: The method blank for batch 100048 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the practical quantitation limit (PQL); therefore, re-analysis of samples was not performed. Any associated sample detections are qualified "V".

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 99930 were outside control limits for the following analytes: Bromoform, Chlorodibromomethane and Dichlorobromomethane. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported and qualified "J".

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 99918 were outside control limits for 1,1,1-Trichloroethane and Carbon tetrachloride. The associated LCS/LCSD met acceptance criteria.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8011: The precision (RPD) of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for batch 99808 was outside control limits for EDB. Associated results are qualified "J". All batch recovery criteria were met.

Method 8011: The surrogate was inadvertantly omitted from the method blank associated with batch 100022; therefore, no surrogate recoveries are available to report. All associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.

No other analytical or quality issues were noted.

Metals
Method 1631E: The following sample was diluted due to the nature of the sample matrix: SW-3 (640-42517-3). Elevated reporting limits (RLs) are provided.

Method 1631E: Routine preservation and digestion of samples analyzed by EPA 1631E consists of the addition of 0.2mL bromine monochloride (BrCl) solution. Additional BrCl was required to ensure complete sample oxidation for the following samples: SW-3 (640-42517-3). An additional method digestion blank, with like amounts of BrCl, was prepared and analyzed with the samples. The mercury concentration in this additional method blank is less than the reporting limit.

Method 1631E: The method blank for batch 174250 contained Mercury above the method detection limit. This target analyte concentration was less than the practical quantitation limit (PQL); therefore, re-analysis of samples was not performed. Any associated sample detections are qualified "V".

Job ID: 640-42469-1 (Continued)

Laboratory: TestAmerica Tallahassee (Continued)

Method 6020: The precision (RPD) of the matrix spike / matrix spike duplicate (MS/MSD) in batch 268709 was outside control limits for Antimony and Arsenic. All recovery criteria were met.

No other analytical or quality issues were noted.

Field Service / Mobile Lab
Field data collected and provided by Professional Technical Services.

General Chemistry
Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 268993 were outside control limits for Ammonia. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 353.2: The matrix spike (MS) recovery for batch 99983 was outside control limits for Nitrate Nitrite as N. The associated laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) met acceptance criteria.

Method SM 4500 NO2 B: The following samples were received outside of holding time for Nitrite: MWB-11(1)(R)c (640-42516-4), MWB-7(1)c (640-42516-6), MWB-7(D)c (640-42516-7). Nitrite results are not included in the attached report; however, results were used in the calculation of Nitrate.

No other analytical or quality issues were noted.

Subcontract Work
Method SM9222D - Fecal Coliform: This method was subcontracted to Diversified Environmental Laboratories. Their report is attached in full as received by TestAmerica.

Method SM10200H - Chlorophyll a: This method was subcontracted to ENCO-Orlando. Their report is attached in full as received by TestAmerica.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-17(I)c — Lab Sample ID: 640-42469-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	35		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	320		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.1		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.0	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.046	I	0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	24		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.52				SU	1		Field Sampling	Total/NA
Field Temperature	22.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	15				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.12				NTU	1		Field Sampling	Total/NA
Water Level	135.18				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-17(D)c — Lab Sample ID: 640-42469-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	30		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	320		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.1		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	5.3		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.074		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	40		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.19				SU	1		Field Sampling	Total/NA
Field Temperature	22.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	35				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.51				NTU	1		Field Sampling	Total/NA
Water Level	131.43				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-19(S)c — Lab Sample ID: 640-42469-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	65		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.21	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	1000		100	33	ug/L	1		6020	Total Recoverable
Lead	0.24	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	8.5		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	11		5.0	1.0	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-19(S)c (Continued) — Lab Sample ID: 640-42469-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia (as N)	0.48		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	66		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Sl Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	4.01				SU	1		Field Sampling	Total/NA
Field Temperature	22.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	82				umhos/cm	1		Field Sampling	Total/NA
Turbidity	8.16				NTU	1		Field Sampling	Total/NA
Water Level	120.12				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-19(I)c — Lab Sample ID: 640-42469-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	53		5.0	1.3	ug/L	1		6020	Total Recoverable
Cadmium	0.19	I	0.50	0.095	ug/L	1		6020	Total Recoverable
Cobalt	0.66		0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	490		100	33	ug/L	1		6020	Total Recoverable
Lead	0.29	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	2.2	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	3.2		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.5	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.057		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	24		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.82				SU	1		Field Sampling	Total/NA
Field Temperature	22.0				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	3.0				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.29				NTU	1		Field Sampling	Total/NA
Water Level	120.94				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-19(D)c — Lab Sample ID: 640-42469-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.6		2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	110		5.0	1.3	ug/L	1		6020	Total Recoverable
Beryllium	0.87		0.50	0.25	ug/L	1		6020	Total Recoverable
Cadmium	0.39	I	0.50	0.095	ug/L	1		6020	Total Recoverable
Chromium	7.5		5.0	2.5	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-19(D)c (Continued)

Lab Sample ID: 640-42469-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.78		0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	2.8	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	4200		100	33	ug/L	1		6020	Total Recoverable
Lead	1.6		1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	3.8	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	4.2		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	12		10	3.8	ug/L	1		6020	Total Recoverable
Zinc	8.9	I	20	8.3	ug/L	1		6020	Total Recoverable
Chloride	4.2	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.090		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.010		0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.010		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	200		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	7.31				SU	1		Field Sampling	Total/NA
Field Temperature	21.9				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	325				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.62				NTU	1		Field Sampling	Total/NA
Water Level	121.15				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-17(S)c

Lab Sample ID: 640-42469-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	3.2	I	5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	130		100	33	ug/L	1		6020	Total Recoverable
Lead	0.44	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	4.7		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	5.7	I	10	3.8	ug/L	1		6020	Total Recoverable
Mercury	0.85		0.20	0.091	ug/L	1		7470A	Total/NA
Chloride	8.3		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.20		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	86		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.29				SU	1		Field Sampling	Total/NA
Field Temperature	21.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.5				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	103				umhos/cm	1		Field Sampling	Total/NA
Turbidity	20.43				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-17(S)c (Continued) — Lab Sample ID: 640-42469-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Water Level	132.71				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-13(I)c — Lab Sample ID: 640-42469-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	30		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	310		100	33	ug/L	1		6020	Total Recoverable
Sodium	2.9		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.6	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.056		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.014		0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.014		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	30		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.97				SU	1		Field Sampling	Total/NA
Field Temperature	24.9				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.6				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	25				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.49				NTU	1		Field Sampling	Total/NA
Water Level	116.2				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-22(S)c — Lab Sample ID: 640-42469-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.26	I	1.0	0.14	ug/L	1		8260C	Total/NA
Barium	3.4	I	5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	84	I	100	33	ug/L	1		6020	Total Recoverable
Sodium	7.8		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	10		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.31		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	140		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.77				SU	1		Field Sampling	Total/NA
Field Temperature	21.8				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	210				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.7				NTU	1		Field Sampling	Total/NA
Water Level	114.71				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-12(S)c — Lab Sample ID: 640-42469-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	7.3		5.0	1.3	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-12(S)c (Continued) — Lab Sample ID: 640-42469-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.2	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	110		100	33	ug/L	1		6020	Total Recoverable
Lead	0.80	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Selenium	2.6		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	4.0		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	14		10	3.8	ug/L	1		6020	Total Recoverable
Chloride	6.3		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.15		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.020		0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.020		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	120		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.45				SU	1		Field Sampling	Total/NA
Field Temperature	22.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.5				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	157				umhos/cm	1		Field Sampling	Total/NA
Turbidity	36.75				NTU	1		Field Sampling	Total/NA
Water Level	113.76				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-12(1)c — Lab Sample ID: 640-42469-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.14	I	1.0	0.13	ug/L	1		8260C	Total/NA
Toluene	0.26	I	1.0	0.14	ug/L	1		8260C	Total/NA
Barium	48		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	310		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.0		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.5	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.056		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.022		0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.022		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	32		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.12				SU	1		Field Sampling	Total/NA
Field Temperature	24.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	24				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.16				NTU	1		Field Sampling	Total/NA
Water Level	117.4				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-12(D)c — Lab Sample ID: 640-42469-11

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-12(D)c (Continued) — Lab Sample ID: 640-42469-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	130		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	1800		100	33	ug/L	1		6020	Total Recoverable
Sodium	5.5		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.0	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.24		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	200		10	10	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	7.04				SU	1		Field Sampling	Total/NA
Field Temperature	24.0				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	362				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.65				NTU	1		Field Sampling	Total/NA
Water Level	119.31				ft	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 01 42469 — Lab Sample ID: 640-42469-12

No Detections.

Client Sample ID: MWB-20(S)c — Lab Sample ID: 640-42491-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	9.7		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	130		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.8		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	4.0	I	10	3.8	ug/L	1		6020	Total Recoverable
Chloride	5.7		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.17		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.23		0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.23		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	36		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.2				SU	1		Field Sampling	Total/NA
Field Temperature	19.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	62				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.51				NTU	1		Field Sampling	Total/NA
Water Level	113.56				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-21(S)c — Lab Sample ID: 640-42491-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	18		5.0	1.3	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-21(S)c (Continued) — Lab Sample ID: 640-42491-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	610		100	33	ug/L	1		6020	Total Recoverable
Nickel	2.1	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	3.1		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	6.3		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.18		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	30		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Sl Yellow Tint				PCU	1		Field Sampling	Total/NA
Field pH	4.82				SU	1		Field Sampling	Total/NA
Field Temperature	21.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	49				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.91				NTU	1		Field Sampling	Total/NA
Water Level	112.08				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-32(D)d — Lab Sample ID: 640-42491-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	37		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	460		100	33	ug/L	1		6020	Total Recoverable
Lead	0.23	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	3.9		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	5.6		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.13		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	40		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.68				SU	1		Field Sampling	Total/NA
Field Temperature	21.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.4				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	70				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.7				NTU	1		Field Sampling	Total/NA
Water Level	118.01				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-32(I)d — Lab Sample ID: 640-42491-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	37		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	350		100	33	ug/L	1		6020	Total Recoverable
Lead	2.2		1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	2.8		0.50	0.25	mg/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-32(I)d (Continued) — Lab Sample ID: 640-42491-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.5	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.067		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	48		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Sl Whitish Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.18				SU	1		Field Sampling	Total/NA
Field Temperature	21.2				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	21				umhos/cm	1		Field Sampling	Total/NA
Turbidity	19.37				NTU	1		Field Sampling	Total/NA
Water Level	118.21				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-29(S)c — Lab Sample ID: 640-42491-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	24		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.27	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	760		100	33	ug/L	1		6020	Total Recoverable
Nickel	2.2	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	11		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	21		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.45		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	46		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.37				SU	1		Field Sampling	Total/NA
Field Temperature	17.9				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	94				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.14				NTU	1		Field Sampling	Total/NA
Water Level	130.54				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-29(I)c — Lab Sample ID: 640-42491-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	42		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	430		100	33	ug/L	1		6020	Total Recoverable
Lead	0.51	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	2.0	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	3.5		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	5.0		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.074		0.050	0.026	mg/L	1		350.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-29(I)c (Continued) — Lab Sample ID: 640-42491-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	18		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.96				SU	1		Field Sampling	Total/NA
Field Temperature	20.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	30				umhos/cm	1		Field Sampling	Total/NA
Turbidity	11.8				NTU	1		Field Sampling	Total/NA
Water Level	133.24				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-29(D)c — Lab Sample ID: 640-42491-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	48		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	600		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.3		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	5.4		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.11		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	24		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.44				SU	1		Field Sampling	Total/NA
Field Temperature	20.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	54				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.02				NTU	1		Field Sampling	Total/NA
Water Level	133.2				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-27(S)c — Lab Sample ID: 640-42491-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	15		5.0	1.3	ug/L	1		6020	Total Recoverable
Cadmium	0.20	I	0.50	0.095	ug/L	1		6020	Total Recoverable
Chromium	3.7	I	5.0	2.5	ug/L	1		6020	Total Recoverable
Copper	1.8	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	160		100	33	ug/L	1		6020	Total Recoverable
Lead	4.3		1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	2.0	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	11		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	14		10	3.8	ug/L	1		6020	Total Recoverable
Chloride	9.0		5.0	1.0	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-27(S)c (Continued) — Lab Sample ID: 640-42491-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia (as N)	0.057		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	4.4		0.10	0.054	mg/L	10		353.2	Total/NA
Nitrate as N	4.4		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	100		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Lt Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.33				SU	1		Field Sampling	Total/NA
Field Temperature	17.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	121				umhos/cm	1		Field Sampling	Total/NA
Turbidity	10.25				NTU	1		Field Sampling	Total/NA
Water Level	122.4				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-27(I)c — Lab Sample ID: 640-42491-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	48		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	430		100	33	ug/L	1		6020	Total Recoverable
Lead	0.29	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	3.0		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.9	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.11		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.11		0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.11		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	20		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.37				SU	1		Field Sampling	Total/NA
Field Temperature	19.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	27				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.05				NTU	1		Field Sampling	Total/NA
Water Level	123.63				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-27(D)c — Lab Sample ID: 640-42491-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	50		5.0	1.3	ug/L	1		6020	Total Recoverable
Copper	1.7	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	510		100	33	ug/L	1		6020	Total Recoverable
Nickel	2.1	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	3.3		0.50	0.25	mg/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-27(D)c (Continued) — Lab Sample ID: 640-42491-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	13	I	20	8.3	ug/L	1		6020	Total Recoverable
Chloride	4.4	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.17		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.040		0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.040		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	38		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.75				SU	1		Field Sampling	Total/NA
Field Temperature	18.9				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	58				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.44				NTU	1		Field Sampling	Total/NA
Water Level	123.48				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-2(I)b — Lab Sample ID: 640-42491-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	20		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.17	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	350		100	33	ug/L	1		6020	Total Recoverable
Nickel	2.5	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	4.0		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	6.2		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.041	I	0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	10		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.58				SU	1		Field Sampling	Total/NA
Field Temperature	20.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.4				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	29				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.43				NTU	1		Field Sampling	Total/NA
Water Level	136.92				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-3(S)b — Lab Sample ID: 640-42491-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	17		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	290		100	33	ug/L	1		6020	Total Recoverable
Sodium	4.8		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	10		5.0	1.0	mg/L	5		300.0	Total/NA
Total Dissolved Solids	10		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-3(S)b (Continued) — Lab Sample ID: 640-42491-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	3.95				SU	1		Field Sampling	Total/NA
Field Temperature	19.5				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.7				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	47				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.52				NTU	1		Field Sampling	Total/NA
Water Level	145.39				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-31(D)b — Lab Sample ID: 640-42491-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	89		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	770		100	33	ug/L	1		6020	Total Recoverable
Lead	0.50	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	5.9		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	5.1		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.18		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	200		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	7.15				SU	1		Field Sampling	Total/NA
Field Temperature	22.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	337				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.33				NTU	1		Field Sampling	Total/NA
Water Level	138.47				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-2(S)b — Lab Sample ID: 640-42491-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	9.4		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	130		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.4		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	5.6		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.053		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	22		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.31				SU	1		Field Sampling	Total/NA
Field Temperature	18.9				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	52				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.96				NTU	1		Field Sampling	Total/NA
Water Level	137.93				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-3(I)b — Lab Sample ID: 640-42491-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	27		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	810		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.7		0.50	0.25	mg/L	1		6020	Total Recoverable
Mercury	0.14	I	0.20	0.091	ug/L	1		7470A	Total/NA
Chloride	5.5		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.045	I	0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.011		0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.011		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	12		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.16				SU	1		Field Sampling	Total/NA
Field Temperature	21.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	30				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.61				NTU	1		Field Sampling	Total/NA
Water Level	138.63				ft	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 02 42491 — Lab Sample ID: 640-42491-16

No Detections.

Client Sample ID: Field Blank 01 — Lab Sample ID: 640-42516-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia (as N)	0.048	I	0.050	0.026	mg/L	1		350.1	Total/NA

Client Sample ID: MWB-13(S)c — Lab Sample ID: 640-42516-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.3	I	2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	11		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	4.5	I	5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	0.17	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	2.9	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	1600		100	33	ug/L	1		6020	Total Recoverable
Lead	1.6		1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	2.5	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	17		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	29		0.50	0.25	mg/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-13(S)c (Continued) — Lab Sample ID: 640-42516-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	56		10	3.8	ug/L	1		6020	Total Recoverable
Chloride	32		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.15		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.32		0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.32		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	210		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.61				SU	1		Field Sampling	Total/NA
Field Temperature	17.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.9				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	283				umhos/cm	1		Field Sampling	Total/NA
Turbidity	24.34				NTU	1		Field Sampling	Total/NA
Water Level	111.02				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-11(S)c — Lab Sample ID: 640-42516-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	82		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.42	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	1200		100	33	ug/L	1		6020	Total Recoverable
Sodium	12		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	21		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.099		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	78		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	3.74				SU	1		Field Sampling	Total/NA
Field Temperature	21.5				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	145				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.89				NTU	1		Field Sampling	Total/NA
Water Level	107.8				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-11(1)(R)c — Lab Sample ID: 640-42516-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	38		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	350		100	33	ug/L	1		6020	Total Recoverable
Nickel	2.2	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	2.9		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.8	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.047	I	0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	20		5.0	5.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-11(1)(R)c (Continued) — Lab Sample ID: 640-42516-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Color	Lt Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	4.71				SU	1		Field Sampling	Total/NA
Field Temperature	23.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	17				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.03				NTU	1		Field Sampling	Total/NA
Water Level	109.24				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-7(S)c — Lab Sample ID: 640-42516-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	11		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	280		100	33	ug/L	1		6020	Total Recoverable
Sodium	15		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	4.8	I	10	3.8	ug/L	1		6020	Total Recoverable
Chloride	17		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.31		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.075		0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.075		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	86		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Sl Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	4.62				SU	1		Field Sampling	Total/NA
Field Temperature	21.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	135				umhos/cm	1		Field Sampling	Total/NA
Turbidity	14.04				NTU	1		Field Sampling	Total/NA
Water Level	115.11				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-7(1)c — Lab Sample ID: 640-42516-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	50		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	380		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.3		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.6	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.044	I	0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	18		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	4.76				SU	1		Field Sampling	Total/NA
Field Temperature	22.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-7(1)c (Continued) — Lab Sample ID: 640-42516-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	31				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.73				NTU	1		Field Sampling	Total/NA
Water Level	118.19				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-7(D)c — Lab Sample ID: 640-42516-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	89		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	310		100	33	ug/L	1		6020	Total Recoverable
Lead	0.48	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	5.0		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.1	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.16		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.0094	I	0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.0094	I	0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	180		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	7.51				SU	1		Field Sampling	Total/NA
Field Temperature	22.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	325				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.78				NTU	1		Field Sampling	Total/NA
Water Level	120.24				ft	1		Field Sampling	Total/NA

Client Sample ID: Field Blank 02 — Lab Sample ID: 640-42516-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia (as N)	0.034	I	0.050	0.026	mg/L	1		350.1	Total/NA

Client Sample ID: MWB-33(S)d — Lab Sample ID: 640-42516-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	17		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.18	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	2.5	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	230		100	33	ug/L	1		6020	Total Recoverable
Selenium	2.9		2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	16		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	17		10	3.8	ug/L	1		6020	Total Recoverable
Chloride	12		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.59		0.050	0.026	mg/L	1		350.1	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-33(S)d (Continued) — Lab Sample ID: 640-42516-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate Nitrite as N	1.7		0.050	0.027	mg/L	5		353.2	Total/NA
Nitrate as N	1.7		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	150		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Sl Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	5.41				SU	1		Field Sampling	Total/NA
Field Temperature	20.8				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	226				umhos/cm	1		Field Sampling	Total/NA
Turbidity	18.07				NTU	1		Field Sampling	Total/NA
Water Level	115.8				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-34(S)d — Lab Sample ID: 640-42516-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.7	I	2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	4.2	I	5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.77		0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	21		5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	140		100	33	ug/L	1		6020	Total Recoverable
Lead	0.78	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	6.6		5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	1.0	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Sodium	71		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	18		10	3.8	ug/L	1		6020	Total Recoverable
Zinc	260		20	8.3	ug/L	1		6020	Total Recoverable
Chloride	42		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.73		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.12		0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.12		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	570		17	17	mg/L	1		SM 2540C	Total/NA
Color	Sl Yellow Tint				PCU	1		Field Sampling	Total/NA
Field pH	6.23				SU	1		Field Sampling	Total/NA
Field Temperature	19.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	791				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.09				NTU	1		Field Sampling	Total/NA
Water Level	116.62				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-34(I)d — Lab Sample ID: 640-42516-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	49		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.17	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	620		100	33	ug/L	1		6020	Total Recoverable
Lead	0.96	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	3.5		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.5	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.094		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.0081	I	0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.0081	I	0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	22		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	5.18				SU	1		Field Sampling	Total/NA
Field Temperature	22.9				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.1				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	22				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.2				NTU	1		Field Sampling	Total/NA
Water Level	117.65				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-34(D)d — Lab Sample ID: 640-42516-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	110		5.0	1.3	ug/L	1		6020	Total Recoverable
Iron	490		100	33	ug/L	1		6020	Total Recoverable
Lead	0.70	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Sodium	6.4		0.50	0.25	mg/L	1		6020	Total Recoverable
Chloride	4.7	I	5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.21		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.046		0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.046		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	170		10	10	mg/L	1		SM 2540C	Total/NA
Color	None				PCU	1		Field Sampling	Total/NA
Field pH	7.13				SU	1		Field Sampling	Total/NA
Field Temperature	22.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.2				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	390				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.23				NTU	1		Field Sampling	Total/NA
Water Level	117.59				ft	1		Field Sampling	Total/NA

Client Sample ID: MWB-32(S)d — Lab Sample ID: 640-42516-13

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWB-32(S)d (Continued) — Lab Sample ID: 640-42516-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	49		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.52		0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	1.4	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	910		100	33	ug/L	1		6020	Total Recoverable
Lead	0.65	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	2.4	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	24		0.50	0.25	mg/L	1		6020	Total Recoverable
Vanadium	4.6	I	10	3.8	ug/L	1		6020	Total Recoverable
Chloride	39		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia (as N)	0.65		0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.010		0.010	0.0054	mg/L	1		353.2	Total/NA
Nitrate as N	0.010		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	120		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Brown Tint				PCU	1		Field Sampling	Total/NA
Field pH	4.88				SU	1		Field Sampling	Total/NA
Field Temperature	21.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.4				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	235				umhos/cm	1		Field Sampling	Total/NA
Turbidity	17.43				NTU	1		Field Sampling	Total/NA
Water Level	116.43				ft	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 03 42516 — Lab Sample ID: 640-42516-14

No Detections.

Client Sample ID: SW-1 — Lab Sample ID: 640-42517-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00040	I V	0.00050	0.00020	ug/L	1		1631E	Total/NA
Barium	55		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.51		0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	1.5	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	1000		100	33	ug/L	1		6020	Total Recoverable
Lead	2.1		1.5	0.20	ug/L	1		6020	Total Recoverable
Vanadium	5.2	I	10	3.8	ug/L	1		6020	Total Recoverable
Zinc	18	I	20	8.3	ug/L	1		6020	Total Recoverable
Hardness as calcium carbonate	26		3.3	3.3	mg/L	1		SM 2340B	Total/NA
Nitrate Nitrite as N	0.081		0.010	0.0054	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-1 (Continued) — Lab Sample ID: 640-42517-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus	0.045	I	0.10	0.041	mg/L	1		365.4	Total/NA
Orthophosphate as P	0.0045	I	0.010	0.0014	mg/L	1		4500 P F	Total/NA
Nitrate as N	0.081		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	160		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	1.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Chemical Oxygen Demand	150		20	6.3	mg/L	1		SM 5220D	Total/NA
Total Organic Carbon	57		5.0	1.8	mg/L	5		SM 5310C	Total/NA
Nitrogen, Total	1.3		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA
Color	Yellow Tint				PCU	1		Field Sampling	Total/NA
Field pH	4.83				SU	1		Field Sampling	Total/NA
Field Temperature	14.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.0				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	99				umhos/cm	1		Field Sampling	Total/NA
Turbidity	8.56				NTU	1		Field Sampling	Total/NA

Client Sample ID: SW-2 — Lab Sample ID: 640-42517-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	110		5.0	1.3	ug/L	1		6020	Total Recoverable
Beryllium	0.78		0.50	0.25	ug/L	1		6020	Total Recoverable
Cobalt	0.17	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	530		100	33	ug/L	1		6020	Total Recoverable
Vanadium	5.7	I	10	3.8	ug/L	1		6020	Total Recoverable
Hardness as calcium carbonate	12		3.3	3.3	mg/L	1		SM 2340B	Total/NA
Nitrate Nitrite as N	0.51		0.010	0.0054	mg/L	1		353.2	Total/NA
Orthophosphate as P	0.0065	I	0.010	0.0014	mg/L	1		4500 P F	Total/NA
Nitrate as N	0.51		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	54		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	6.4		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Chemical Oxygen Demand	46		20	6.3	mg/L	1		SM 5220D	Total/NA
Total Organic Carbon	19		1.0	0.35	mg/L	1		SM 5310C	Total/NA
Nitrogen, Total	1.1		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA
Color	Yellow Tint				PCU	1		Field Sampling	Total/NA
Field pH	4.14				SU	1		Field Sampling	Total/NA
Field Temperature	17.0				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.2				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	64				umhos/cm	1		Field Sampling	Total/NA
Turbidity	9.77				NTU	1		Field Sampling	Total/NA

Client Sample ID: SW-3 — Lab Sample ID: 640-42517-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0074	V	0.0025	0.0010	ug/L	1		1631E	Total/NA
Antimony	2.7	I	5.0	2.3	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: SW-3 (Continued) — Lab Sample ID: 640-42517-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.6		2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	71		5.0	1.3	ug/L	1		6020	Total Recoverable
Chromium	12		5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	0.63		0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	9.9		5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	2500		100	33	ug/L	1		6020	Total Recoverable
Lead	33		1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	5.9		5.0	2.0	ug/L	1		6020	Total Recoverable
Selenium	1.5	I	2.5	1.0	ug/L	1		6020	Total Recoverable
Vanadium	16		10	3.8	ug/L	1		6020	Total Recoverable
Zinc	43		20	8.3	ug/L	1		6020	Total Recoverable
Hardness as calcium carbonate	130		3.3	3.3	mg/L	1		SM 2340B	Total/NA
Nitrate Nitrite as N	1.3		0.050	0.027	mg/L	5		353.2	Total/NA
Phosphorus	0.20		0.10	0.041	mg/L	1		365.4	Total/NA
Orthophosphate as P	0.069		0.010	0.0014	mg/L	1		4500 P F	Total/NA
Nitrate as N	1.3		0.010	0.0054	mg/L	1		Nitrate by calc	Total/NA
Total Dissolved Solids	350		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	45		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Chemical Oxygen Demand	48		20	6.3	mg/L	1		SM 5220D	Total/NA
Total Organic Carbon	15		4.0	1.4	mg/L	4		SM 5310C	Total/NA
Nitrogen, Total	3.4		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA
Unionized Ammonia	0.0061		0.00028	0.00028	mg/L	1		UnionizedNH3	Total/NA
Color	Lt Tan				PCU	1		Field Sampling	Total/NA
Field pH	7.28				SU	1		Field Sampling	Total/NA
Field Temperature	17.4				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.6				mg/L	1		Field Sampling	Total/NA
Sheen	None				NONE	1		Field Sampling	Total/NA
Specific Conductance	264				umhos/cm	1		Field Sampling	Total/NA
Turbidity	156.3				NTU	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank 04 42517 — Lab Sample ID: 640-42517-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-17(I)c
Date Collected: 02/27/13 10:30
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/04/13 14:05	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/04/13 14:05	1
Benzene	0.13	U	1.0	0.13	ug/L			03/04/13 14:05	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/04/13 14:05	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/04/13 14:05	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/04/13 14:05	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/04/13 14:05	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/04/13 14:05	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/04/13 14:05	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/04/13 14:05	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/04/13 14:05	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/04/13 14:05	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/04/13 14:05	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/04/13 14:05	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/04/13 14:05	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 14:05	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/04/13 14:05	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/04/13 14:05	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/04/13 14:05	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/04/13 14:05	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/04/13 14:05	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 14:05	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/04/13 14:05	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/04/13 14:05	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/04/13 14:05	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/04/13 14:05	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/04/13 14:05	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/04/13 14:05	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/04/13 14:05	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/04/13 14:05	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/04/13 14:05	1
Styrene	0.12	U	1.0	0.12	ug/L			03/04/13 14:05	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/04/13 14:05	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/04/13 14:05	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/04/13 14:05	1
Toluene	0.14	U	1.0	0.14	ug/L			03/04/13 14:05	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/04/13 14:05	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/04/13 14:05	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 14:05	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/04/13 14:05	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 14:05	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/04/13 14:05	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/04/13 14:05	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/04/13 14:05	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/04/13 14:05	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/04/13 14:05	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/04/13 14:05	1

Client Sample ID: MWB-17(I)c
Date Collected: 02/27/13 10:30
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*87 - 114*		*03/04/13 14:05*	*1*
Dibromofluoromethane	*98*		*81 - 113*		*03/04/13 14:05*	*1*
Toluene-d8 (Surr)	*99*		*87 - 112*		*03/04/13 14:05*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/06/13 10:00	03/06/13 18:59	1
EDB	0.0061	J U	0.019	0.0061	ug/L		03/06/13 10:00	03/06/13 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*107*		*56 - 144*	*03/06/13 10:00*	*03/06/13 18:59*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 13:57	03/10/13 07:40	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 13:57	03/10/13 07:40	1
Barium	**35**		5.0	1.3	ug/L		03/08/13 13:57	03/10/13 07:40	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 13:57	03/10/13 07:40	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 13:57	03/10/13 07:40	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 13:57	03/10/13 07:40	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 13:57	03/10/13 07:40	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 13:57	03/10/13 07:40	1
Iron	**320**		100	33	ug/L		03/08/13 13:57	03/10/13 07:40	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 13:57	03/10/13 07:40	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 13:57	03/10/13 07:40	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 13:57	03/10/13 07:40	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 13:57	03/10/13 07:40	1
Sodium	**3.1**		0.50	0.25	mg/L		03/08/13 13:57	03/10/13 07:40	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 13:57	03/10/13 07:40	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 13:57	03/10/13 07:40	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 13:57	03/10/13 07:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/05/13 10:29	03/06/13 20:23	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.0**	**I**	5.0	1.0	mg/L			03/11/13 21:35	5
Ammonia (as N)	**0.046**	**I**	0.050	0.026	mg/L			03/11/13 14:33	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			02/28/13 13:59	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 09:20	1
Total Dissolved Solids	**24**		5.0	5.0	mg/L			03/05/13 08:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/27/13 10:29	1
Field pH	**4.52**				SU			02/27/13 10:29	1
Field Temperature	**22.4**				Degrees C			02/27/13 10:29	1
Oxygen, Dissolved	**0.0**				mg/L			02/27/13 10:29	1
Sheen	**None**				NONE			02/27/13 10:29	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-17(I)c
Date Collected: 02/27/13 10:30
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-1
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	15				umhos/cm			02/27/13 10:29	1
Turbidity	1.12				NTU			02/27/13 10:29	1
Water Level	135.18				ft			02/27/13 10:29	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-17(D)c
Date Collected: 02/27/13 09:56
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/04/13 14:29	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/04/13 14:29	1
Benzene	0.13	U	1.0	0.13	ug/L			03/04/13 14:29	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/04/13 14:29	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/04/13 14:29	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/04/13 14:29	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/04/13 14:29	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/04/13 14:29	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/04/13 14:29	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/04/13 14:29	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/04/13 14:29	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/04/13 14:29	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/04/13 14:29	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/04/13 14:29	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/04/13 14:29	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 14:29	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/04/13 14:29	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/04/13 14:29	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/04/13 14:29	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/04/13 14:29	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/04/13 14:29	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 14:29	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/04/13 14:29	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/04/13 14:29	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/04/13 14:29	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/04/13 14:29	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/04/13 14:29	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/04/13 14:29	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/04/13 14:29	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/04/13 14:29	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/04/13 14:29	1
Styrene	0.12	U	1.0	0.12	ug/L			03/04/13 14:29	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/04/13 14:29	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/04/13 14:29	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/04/13 14:29	1
Toluene	0.14	U	1.0	0.14	ug/L			03/04/13 14:29	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/04/13 14:29	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/04/13 14:29	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 14:29	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/04/13 14:29	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 14:29	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/04/13 14:29	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/04/13 14:29	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/04/13 14:29	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/04/13 14:29	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/04/13 14:29	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/04/13 14:29	1

Client Sample ID: MWB-17(D)c
Date Collected: 02/27/13 09:56
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*87 - 114*		*03/04/13 14:29*	*1*
Dibromofluoromethane	*100*		*81 - 113*		*03/04/13 14:29*	*1*
Toluene-d8 (Surr)	*99*		*87 - 112*		*03/04/13 14:29*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/06/13 10:00	03/06/13 19:13	1
EDB	0.0061	J U	0.019	0.0061	ug/L		03/06/13 10:00	03/06/13 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*114*		*56 - 144*	*03/06/13 10:00*	*03/06/13 19:13*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 13:57	03/10/13 07:47	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 13:57	03/10/13 07:47	1
Barium	**30**		5.0	1.3	ug/L		03/08/13 13:57	03/10/13 07:47	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 13:57	03/10/13 07:47	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 13:57	03/10/13 07:47	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 13:57	03/10/13 07:47	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 13:57	03/10/13 07:47	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 13:57	03/10/13 07:47	1
Iron	**320**		100	33	ug/L		03/08/13 13:57	03/10/13 07:47	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 13:57	03/10/13 07:47	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 13:57	03/10/13 07:47	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 13:57	03/10/13 07:47	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 13:57	03/10/13 07:47	1
Sodium	**3.1**		0.50	0.25	mg/L		03/08/13 13:57	03/10/13 07:47	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 13:57	03/10/13 07:47	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 13:57	03/10/13 07:47	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 13:57	03/10/13 07:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/05/13 10:29	03/06/13 20:35	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.3**		5.0	1.0	mg/L			03/11/13 21:49	5
Ammonia (as N)	**0.074**		0.050	0.026	mg/L			03/11/13 14:33	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			02/28/13 14:09	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 09:20	1
Total Dissolved Solids	**40**		5.0	5.0	mg/L			03/05/13 08:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/27/13 09:55	1
Field pH	**5.19**				SU			02/27/13 09:55	1
Field Temperature	**22.4**				Degrees C			02/27/13 09:55	1
Oxygen, Dissolved	**0.0**				mg/L			02/27/13 09:55	1
Sheen	**None**				NONE			02/27/13 09:55	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-17(D)c
Date Collected: 02/27/13 09:56
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-2
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	35				umhos/cm			02/27/13 09:55	1
Turbidity	0.51				NTU			02/27/13 09:55	1
Water Level	131.43				ft			02/27/13 09:55	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-19(S)c
Date Collected: 02/27/13 09:14
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/04/13 14:53	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/04/13 14:53	1
Benzene	0.13	U	1.0	0.13	ug/L			03/04/13 14:53	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/04/13 14:53	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/04/13 14:53	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/04/13 14:53	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/04/13 14:53	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/04/13 14:53	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/04/13 14:53	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/04/13 14:53	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/04/13 14:53	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/04/13 14:53	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/04/13 14:53	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/04/13 14:53	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/04/13 14:53	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 14:53	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/04/13 14:53	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/04/13 14:53	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/04/13 14:53	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/04/13 14:53	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/04/13 14:53	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 14:53	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/04/13 14:53	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/04/13 14:53	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/04/13 14:53	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/04/13 14:53	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/04/13 14:53	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/04/13 14:53	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/04/13 14:53	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/04/13 14:53	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/04/13 14:53	1
Styrene	0.12	U	1.0	0.12	ug/L			03/04/13 14:53	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/04/13 14:53	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/04/13 14:53	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/04/13 14:53	1
Toluene	0.14	U	1.0	0.14	ug/L			03/04/13 14:53	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/04/13 14:53	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/04/13 14:53	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 14:53	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/04/13 14:53	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 14:53	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/04/13 14:53	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/04/13 14:53	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/04/13 14:53	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/04/13 14:53	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/04/13 14:53	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/04/13 14:53	1

Client Sample ID: MWB-19(S)c
Date Collected: 02/27/13 09:14
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*87 - 114*		*03/04/13 14:53*	*1*
Dibromofluoromethane	*101*		*81 - 113*		*03/04/13 14:53*	*1*
Toluene-d8 (Surr)	*100*		*87 - 112*		*03/04/13 14:53*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0058	U	0.019	0.0058	ug/L		03/06/13 10:00	03/06/13 19:27	1
EDB	0.0061	J U	0.019	0.0061	ug/L		03/06/13 10:00	03/06/13 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*116*		*56 - 144*	*03/06/13 10:00*	*03/06/13 19:27*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 13:57	03/10/13 07:54	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 13:57	03/10/13 07:54	1
Barium	**65**		5.0	1.3	ug/L		03/08/13 13:57	03/10/13 07:54	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 13:57	03/10/13 07:54	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 13:57	03/10/13 07:54	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 13:57	03/10/13 07:54	1
Cobalt	**0.21**	**I**	0.50	0.15	ug/L		03/08/13 13:57	03/10/13 07:54	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 13:57	03/10/13 07:54	1
Iron	**1000**		100	33	ug/L		03/08/13 13:57	03/10/13 07:54	1
Lead	**0.24**	**I**	1.5	0.20	ug/L		03/08/13 13:57	03/10/13 07:54	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 13:57	03/10/13 07:54	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 13:57	03/10/13 07:54	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 13:57	03/10/13 07:54	1
Sodium	**8.5**		0.50	0.25	mg/L		03/08/13 13:57	03/10/13 07:54	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 13:57	03/10/13 07:54	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 13:57	03/10/13 07:54	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 13:57	03/10/13 07:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/05/13 10:29	03/06/13 20:37	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**		5.0	1.0	mg/L			03/11/13 22:02	5
Ammonia (as N)	**0.48**		0.050	0.026	mg/L			03/11/13 14:33	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			02/28/13 14:10	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 09:20	1
Total Dissolved Solids	**66**		5.0	5.0	mg/L			03/05/13 08:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Sl Brown Tint**				PCU			02/27/13 09:13	1
Field pH	**4.01**				SU			02/27/13 09:13	1
Field Temperature	**22.1**				Degrees C			02/27/13 09:13	1
Oxygen, Dissolved	**0.0**				mg/L			02/27/13 09:13	1
Sheen	**None**				NONE			02/27/13 09:13	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-19(S)c
Date Collected: 02/27/13 09:14
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-3
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	82				umhos/cm			02/27/13 09:13	1
Turbidity	8.16				NTU			02/27/13 09:13	1
Water Level	120.12				ft			02/27/13 09:13	1

Client Sample ID: MWB-19(I)c
Date Collected: 02/27/13 08:39
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/04/13 15:17	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/04/13 15:17	1
Benzene	0.13	U	1.0	0.13	ug/L			03/04/13 15:17	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/04/13 15:17	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/04/13 15:17	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/04/13 15:17	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/04/13 15:17	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/04/13 15:17	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/04/13 15:17	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/04/13 15:17	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/04/13 15:17	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/04/13 15:17	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/04/13 15:17	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/04/13 15:17	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/04/13 15:17	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 15:17	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/04/13 15:17	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/04/13 15:17	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/04/13 15:17	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/04/13 15:17	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/04/13 15:17	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 15:17	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/04/13 15:17	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/04/13 15:17	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/04/13 15:17	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/04/13 15:17	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/04/13 15:17	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/04/13 15:17	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/04/13 15:17	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/04/13 15:17	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/04/13 15:17	1
Styrene	0.12	U	1.0	0.12	ug/L			03/04/13 15:17	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/04/13 15:17	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/04/13 15:17	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/04/13 15:17	1
Toluene	0.14	U	1.0	0.14	ug/L			03/04/13 15:17	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/04/13 15:17	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/04/13 15:17	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 15:17	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/04/13 15:17	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 15:17	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/04/13 15:17	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/04/13 15:17	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/04/13 15:17	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/04/13 15:17	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/04/13 15:17	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/04/13 15:17	1

Client Sample ID: MWB-19(I)c
Date Collected: 02/27/13 08:39
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*87 - 114*		*03/04/13 15:17*	*1*
Dibromofluoromethane	*98*		*81 - 113*		*03/04/13 15:17*	*1*
Toluene-d8 (Surr)	*95*		*87 - 112*		*03/04/13 15:17*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/06/13 10:00	03/06/13 19:40	1
EDB	0.0061	J U	0.019	0.0061	ug/L		03/06/13 10:00	03/06/13 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*114*		*56 - 144*	*03/06/13 10:00*	*03/06/13 19:40*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 13:57	03/10/13 08:00	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 13:57	03/10/13 08:00	1
Barium	**53**		5.0	1.3	ug/L		03/08/13 13:57	03/10/13 08:00	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 13:57	03/10/13 08:00	1
Cadmium	**0.19**	**I**	0.50	0.095	ug/L		03/08/13 13:57	03/10/13 08:00	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 13:57	03/10/13 08:00	1
Cobalt	**0.66**		0.50	0.15	ug/L		03/08/13 13:57	03/10/13 08:00	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 13:57	03/10/13 08:00	1
Iron	**490**		100	33	ug/L		03/08/13 13:57	03/10/13 08:00	1
Lead	**0.29**	**I**	1.5	0.20	ug/L		03/08/13 13:57	03/10/13 08:00	1
Nickel	**2.2**	**I**	5.0	2.0	ug/L		03/08/13 13:57	03/10/13 08:00	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 13:57	03/10/13 08:00	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 13:57	03/10/13 08:00	1
Sodium	**3.2**		0.50	0.25	mg/L		03/08/13 13:57	03/10/13 08:00	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 13:57	03/10/13 08:00	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 13:57	03/10/13 08:00	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 13:57	03/10/13 08:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/05/13 10:29	03/06/13 20:40	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.5**	**I**	5.0	1.0	mg/L			03/11/13 22:15	5
Ammonia (as N)	**0.057**		0.050	0.026	mg/L			03/11/13 14:33	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			02/28/13 14:12	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 09:20	1
Total Dissolved Solids	**24**		5.0	5.0	mg/L			03/05/13 08:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/27/13 08:38	1
Field pH	**4.82**				SU			02/27/13 08:38	1
Field Temperature	**22.0**				Degrees C			02/27/13 08:38	1
Oxygen, Dissolved	**0.0**				mg/L			02/27/13 08:38	1
Sheen	**None**				NONE			02/27/13 08:38	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-19(I)c
Date Collected: 02/27/13 08:39
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-4
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	3.0				umhos/cm			02/27/13 08:38	1
Turbidity	4.29				NTU			02/27/13 08:38	1
Water Level	120.94				ft			02/27/13 08:38	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-19(D)c
Date Collected: 02/27/13 08:02
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/04/13 15:41	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/04/13 15:41	1
Benzene	0.13	U	1.0	0.13	ug/L			03/04/13 15:41	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/04/13 15:41	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/04/13 15:41	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/04/13 15:41	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/04/13 15:41	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/04/13 15:41	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/04/13 15:41	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/04/13 15:41	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/04/13 15:41	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/04/13 15:41	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/04/13 15:41	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/04/13 15:41	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/04/13 15:41	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 15:41	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/04/13 15:41	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/04/13 15:41	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/04/13 15:41	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/04/13 15:41	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/04/13 15:41	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 15:41	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/04/13 15:41	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/04/13 15:41	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/04/13 15:41	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/04/13 15:41	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/04/13 15:41	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/04/13 15:41	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/04/13 15:41	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/04/13 15:41	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/04/13 15:41	1
Styrene	0.12	U	1.0	0.12	ug/L			03/04/13 15:41	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/04/13 15:41	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/04/13 15:41	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/04/13 15:41	1
Toluene	0.14	U	1.0	0.14	ug/L			03/04/13 15:41	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/04/13 15:41	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/04/13 15:41	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 15:41	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/04/13 15:41	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 15:41	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/04/13 15:41	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/04/13 15:41	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/04/13 15:41	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/04/13 15:41	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/04/13 15:41	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/04/13 15:41	1

Client Sample ID: MWB-19(D)c

Date Collected: 02/27/13 08:02
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*87 - 114*		*03/04/13 15:41*	*1*
Dibromofluoromethane	*98*		*81 - 113*		*03/04/13 15:41*	*1*
Toluene-d8 (Surr)	*97*		*87 - 112*		*03/04/13 15:41*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/06/13 10:00	03/06/13 19:54	1
EDB	0.0061	J U	0.019	0.0061	ug/L		03/06/13 10:00	03/06/13 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*117*		*56 - 144*	*03/06/13 10:00*	*03/06/13 19:54*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 13:57	03/10/13 08:07	1
Arsenic	**4.6**		2.5	1.3	ug/L		03/08/13 13:57	03/10/13 08:07	1
Barium	**110**		5.0	1.3	ug/L		03/08/13 13:57	03/10/13 08:07	1
Beryllium	**0.87**		0.50	0.25	ug/L		03/08/13 13:57	03/10/13 08:07	1
Cadmium	**0.39**	I	0.50	0.095	ug/L		03/08/13 13:57	03/10/13 08:07	1
Chromium	**7.5**		5.0	2.5	ug/L		03/08/13 13:57	03/10/13 08:07	1
Cobalt	**0.78**		0.50	0.15	ug/L		03/08/13 13:57	03/10/13 08:07	1
Copper	**2.8**	I	5.0	1.1	ug/L		03/08/13 13:57	03/10/13 08:07	1
Iron	**4200**		100	33	ug/L		03/08/13 13:57	03/10/13 08:07	1
Lead	**1.6**		1.5	0.20	ug/L		03/08/13 13:57	03/10/13 08:07	1
Nickel	**3.8**	I	5.0	2.0	ug/L		03/08/13 13:57	03/10/13 08:07	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 13:57	03/10/13 08:07	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 13:57	03/10/13 08:07	1
Sodium	**4.2**		0.50	0.25	mg/L		03/08/13 13:57	03/10/13 08:07	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 13:57	03/10/13 08:07	1
Vanadium	**12**		10	3.8	ug/L		03/08/13 13:57	03/10/13 08:07	1
Zinc	**8.9**	I	20	8.3	ug/L		03/08/13 13:57	03/10/13 08:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/05/13 10:29	03/06/13 20:42	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.2**	I	5.0	1.0	mg/L			03/11/13 22:28	5
Ammonia (as N)	**0.090**		0.050	0.026	mg/L			03/11/13 14:33	1
Nitrate Nitrite as N	**0.010**		0.010	0.0054	mg/L			02/28/13 14:14	1
Nitrate as N	**0.010**		0.010	0.0054	mg/L			03/01/13 09:20	1
Total Dissolved Solids	**200**		5.0	5.0	mg/L			03/05/13 08:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/27/13 08:01	1
Field pH	**7.31**				SU			02/27/13 08:01	1
Field Temperature	**21.9**				Degrees C			02/27/13 08:01	1
Oxygen, Dissolved	**0.0**				mg/L			02/27/13 08:01	1
Sheen	**None**				NONE			02/27/13 08:01	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-19(D)c
Date Collected: 02/27/13 08:02
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-5
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	325				umhos/cm			02/27/13 08:01	1
Turbidity	6.62				NTU			02/27/13 08:01	1
Water Level	121.15				ft			02/27/13 08:01	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-17(S)c
Date Collected: 02/27/13 11:02
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/04/13 16:05	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/04/13 16:05	1
Benzene	0.13	U	1.0	0.13	ug/L			03/04/13 16:05	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/04/13 16:05	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/04/13 16:05	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/04/13 16:05	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/04/13 16:05	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/04/13 16:05	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/04/13 16:05	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/04/13 16:05	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/04/13 16:05	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/04/13 16:05	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/04/13 16:05	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/04/13 16:05	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/04/13 16:05	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 16:05	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/04/13 16:05	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/04/13 16:05	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/04/13 16:05	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/04/13 16:05	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/04/13 16:05	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 16:05	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/04/13 16:05	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/04/13 16:05	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/04/13 16:05	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/04/13 16:05	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/04/13 16:05	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/04/13 16:05	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/04/13 16:05	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/04/13 16:05	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/04/13 16:05	1
Styrene	0.12	U	1.0	0.12	ug/L			03/04/13 16:05	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/04/13 16:05	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/04/13 16:05	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/04/13 16:05	1
Toluene	0.14	U	1.0	0.14	ug/L			03/04/13 16:05	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/04/13 16:05	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/04/13 16:05	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 16:05	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/04/13 16:05	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 16:05	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/04/13 16:05	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/04/13 16:05	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/04/13 16:05	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/04/13 16:05	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/04/13 16:05	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/04/13 16:05	1

Client Sample ID: MWB-17(S)c

Date Collected: 02/27/13 11:02
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*87 - 114*		*03/04/13 16:05*	*1*
Dibromofluoromethane	*96*		*81 - 113*		*03/04/13 16:05*	*1*
Toluene-d8 (Surr)	*95*		*87 - 112*		*03/04/13 16:05*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/06/13 10:00	03/06/13 20:07	1
EDB	0.0061	J U	0.019	0.0061	ug/L		03/06/13 10:00	03/06/13 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*112*		*56 - 144*	*03/06/13 10:00*	*03/06/13 20:07*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 13:57	03/10/13 08:14	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 13:57	03/10/13 08:14	1
Barium	**3.2**	**I**	5.0	1.3	ug/L		03/08/13 13:57	03/10/13 08:14	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 13:57	03/10/13 08:14	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 13:57	03/10/13 08:14	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 13:57	03/10/13 08:14	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 13:57	03/10/13 08:14	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 13:57	03/10/13 08:14	1
Iron	**130**		100	33	ug/L		03/08/13 13:57	03/10/13 08:14	1
Lead	**0.44**	**I**	1.5	0.20	ug/L		03/08/13 13:57	03/10/13 08:14	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 13:57	03/10/13 08:14	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 13:57	03/10/13 08:14	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 13:57	03/10/13 08:14	1
Sodium	**4.7**		0.50	0.25	mg/L		03/08/13 13:57	03/10/13 08:14	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 13:57	03/10/13 08:14	1
Vanadium	**5.7**	**I**	10	3.8	ug/L		03/08/13 13:57	03/10/13 08:14	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 13:57	03/10/13 08:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.85**		0.20	0.091	ug/L		03/05/13 10:29	03/06/13 20:45	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.3**		5.0	1.0	mg/L			03/11/13 22:42	5
Ammonia (as N)	**0.20**		0.050	0.026	mg/L			03/11/13 14:33	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			02/28/13 14:20	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 09:20	1
Total Dissolved Solids	**86**		5.0	5.0	mg/L			03/05/13 08:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Brown Tint**				PCU			02/27/13 11:01	1
Field pH	**5.29**				SU			02/27/13 11:01	1
Field Temperature	**21.7**				Degrees C			02/27/13 11:01	1
Oxygen, Dissolved	**0.5**				mg/L			02/27/13 11:01	1
Sheen	**None**				NONE			02/27/13 11:01	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-17(S)c
Date Collected: 02/27/13 11:02
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-6
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	103				umhos/cm			02/27/13 11:01	1
Turbidity	20.43				NTU			02/27/13 11:01	1
Water Level	132.71				ft			02/27/13 11:01	1

Client Sample ID: MWB-13(I)c
Date Collected: 02/27/13 13:52
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/04/13 16:29	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/04/13 16:29	1
Benzene	0.13	U	1.0	0.13	ug/L			03/04/13 16:29	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/04/13 16:29	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/04/13 16:29	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/04/13 16:29	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/04/13 16:29	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/04/13 16:29	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/04/13 16:29	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/04/13 16:29	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/04/13 16:29	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/04/13 16:29	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/04/13 16:29	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/04/13 16:29	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/04/13 16:29	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 16:29	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/04/13 16:29	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/04/13 16:29	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/04/13 16:29	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/04/13 16:29	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/04/13 16:29	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 16:29	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/04/13 16:29	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/04/13 16:29	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/04/13 16:29	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/04/13 16:29	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/04/13 16:29	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/04/13 16:29	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/04/13 16:29	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/04/13 16:29	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/04/13 16:29	1
Styrene	0.12	U	1.0	0.12	ug/L			03/04/13 16:29	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/04/13 16:29	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/04/13 16:29	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/04/13 16:29	1
Toluene	0.14	U	1.0	0.14	ug/L			03/04/13 16:29	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/04/13 16:29	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/04/13 16:29	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 16:29	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/04/13 16:29	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 16:29	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/04/13 16:29	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/04/13 16:29	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/04/13 16:29	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/04/13 16:29	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/04/13 16:29	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/04/13 16:29	1

Client Sample ID: MWB-13(I)c
Date Collected: 02/27/13 13:52
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*87 - 114*		*03/04/13 16:29*	*1*
Dibromofluoromethane	*99*		*81 - 113*		*03/04/13 16:29*	*1*
Toluene-d8 (Surr)	*98*		*87 - 112*		*03/04/13 16:29*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/06/13 10:00	03/06/13 20:21	1
EDB	0.0061	J U	0.019	0.0061	ug/L		03/06/13 10:00	03/06/13 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*123*		*56 - 144*	*03/06/13 10:00*	*03/06/13 20:21*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 13:57	03/10/13 08:20	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 13:57	03/10/13 08:20	1
Barium	**30**		5.0	1.3	ug/L		03/08/13 13:57	03/10/13 08:20	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 13:57	03/10/13 08:20	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 13:57	03/10/13 08:20	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 13:57	03/10/13 08:20	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 13:57	03/10/13 08:20	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 13:57	03/10/13 08:20	1
Iron	**310**		100	33	ug/L		03/08/13 13:57	03/10/13 08:20	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 13:57	03/10/13 08:20	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 13:57	03/10/13 08:20	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 13:57	03/10/13 08:20	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 13:57	03/10/13 08:20	1
Sodium	**2.9**		0.50	0.25	mg/L		03/08/13 13:57	03/10/13 08:20	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 13:57	03/10/13 08:20	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 13:57	03/10/13 08:20	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 13:57	03/10/13 08:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/05/13 10:29	03/06/13 20:47	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.6**	**I**	5.0	1.0	mg/L			03/11/13 22:55	5
Ammonia (as N)	**0.056**		0.050	0.026	mg/L			03/11/13 14:33	1
Nitrate Nitrite as N	**0.014**		0.010	0.0054	mg/L			02/28/13 14:22	1
Nitrate as N	**0.014**		0.010	0.0054	mg/L			03/01/13 09:20	1
Total Dissolved Solids	**30**		5.0	5.0	mg/L			03/05/13 08:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/27/13 13:51	1
Field pH	**4.97**				SU			02/27/13 13:51	1
Field Temperature	**24.9**				Degrees C			02/27/13 13:51	1
Oxygen, Dissolved	**0.6**				mg/L			02/27/13 13:51	1
Sheen	**None**				NONE			02/27/13 13:51	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-13(I)c
Date Collected: 02/27/13 13:52
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-7
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	25				umhos/cm			02/27/13 13:51	1
Turbidity	3.49				NTU			02/27/13 13:51	1
Water Level	116.2				ft			02/27/13 13:51	1

Client Sample ID: MWB-22(S)c
Date Collected: 02/27/13 13:20
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/04/13 16:54	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/04/13 16:54	1
Benzene	0.13	U	1.0	0.13	ug/L			03/04/13 16:54	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/04/13 16:54	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/04/13 16:54	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/04/13 16:54	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/04/13 16:54	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/04/13 16:54	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/04/13 16:54	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/04/13 16:54	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/04/13 16:54	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/04/13 16:54	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/04/13 16:54	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/04/13 16:54	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/04/13 16:54	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 16:54	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/04/13 16:54	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/04/13 16:54	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/04/13 16:54	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/04/13 16:54	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/04/13 16:54	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 16:54	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/04/13 16:54	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/04/13 16:54	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/04/13 16:54	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/04/13 16:54	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/04/13 16:54	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/04/13 16:54	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/04/13 16:54	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/04/13 16:54	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/04/13 16:54	1
Styrene	0.12	U	1.0	0.12	ug/L			03/04/13 16:54	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/04/13 16:54	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/04/13 16:54	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/04/13 16:54	1
Toluene	**0.26**	**I**	1.0	0.14	ug/L			03/04/13 16:54	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/04/13 16:54	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/04/13 16:54	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 16:54	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/04/13 16:54	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 16:54	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/04/13 16:54	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/04/13 16:54	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/04/13 16:54	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/04/13 16:54	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/04/13 16:54	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/04/13 16:54	1

Client Sample ID: MWB-22(S)c
Date Collected: 02/27/13 13:20
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*87 - 114*		*03/04/13 16:54*	*1*
Dibromofluoromethane	*99*		*81 - 113*		*03/04/13 16:54*	*1*
Toluene-d8 (Surr)	*95*		*87 - 112*		*03/04/13 16:54*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/06/13 10:00	03/06/13 20:34	1
EDB	0.0061	J U	0.019	0.0061	ug/L		03/06/13 10:00	03/06/13 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*122*		*56 - 144*	*03/06/13 10:00*	*03/06/13 20:34*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 13:57	03/10/13 08:27	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 13:57	03/10/13 08:27	1
Barium	**3.4**	**I**	5.0	1.3	ug/L		03/08/13 13:57	03/10/13 08:27	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 13:57	03/10/13 08:27	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 13:57	03/10/13 08:27	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 13:57	03/10/13 08:27	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 13:57	03/10/13 08:27	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 13:57	03/10/13 08:27	1
Iron	**84**	**I**	100	33	ug/L		03/08/13 13:57	03/10/13 08:27	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 13:57	03/10/13 08:27	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 13:57	03/10/13 08:27	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 13:57	03/10/13 08:27	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 13:57	03/10/13 08:27	1
Sodium	**7.8**		0.50	0.25	mg/L		03/08/13 13:57	03/10/13 08:27	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 13:57	03/10/13 08:27	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 13:57	03/10/13 08:27	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 13:57	03/10/13 08:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/05/13 10:29	03/06/13 20:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**		5.0	1.0	mg/L			03/11/13 23:08	5
Ammonia (as N)	**0.31**		0.050	0.026	mg/L			03/11/13 14:41	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			02/28/13 14:24	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 09:20	1
Total Dissolved Solids	**140**		5.0	5.0	mg/L			03/05/13 08:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/27/13 13:19	1
Field pH	**5.77**				SU			02/27/13 13:19	1
Field Temperature	**21.8**				Degrees C			02/27/13 13:19	1
Oxygen, Dissolved	**0.2**				mg/L			02/27/13 13:19	1
Sheen	**None**				NONE			02/27/13 13:19	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-22(S)c
Date Collected: 02/27/13 13:20
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-8
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	210				umhos/cm			02/27/13 13:19	1
Turbidity	3.7				NTU			02/27/13 13:19	1
Water Level	114.71				ft			02/27/13 13:19	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-12(S)c
Date Collected: 02/27/13 12:47
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/04/13 17:18	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/04/13 17:18	1
Benzene	0.13	U	1.0	0.13	ug/L			03/04/13 17:18	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/04/13 17:18	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/04/13 17:18	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/04/13 17:18	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/04/13 17:18	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/04/13 17:18	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/04/13 17:18	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/04/13 17:18	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/04/13 17:18	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/04/13 17:18	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/04/13 17:18	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/04/13 17:18	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/04/13 17:18	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 17:18	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/04/13 17:18	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/04/13 17:18	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/04/13 17:18	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/04/13 17:18	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/04/13 17:18	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 17:18	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/04/13 17:18	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/04/13 17:18	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/04/13 17:18	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/04/13 17:18	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/04/13 17:18	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/04/13 17:18	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/04/13 17:18	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/04/13 17:18	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/04/13 17:18	1
Styrene	0.12	U	1.0	0.12	ug/L			03/04/13 17:18	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/04/13 17:18	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/04/13 17:18	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/04/13 17:18	1
Toluene	0.14	U	1.0	0.14	ug/L			03/04/13 17:18	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/04/13 17:18	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/04/13 17:18	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 17:18	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/04/13 17:18	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 17:18	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/04/13 17:18	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/04/13 17:18	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/04/13 17:18	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/04/13 17:18	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/04/13 17:18	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/04/13 17:18	1

Client Sample ID: MWB-12(S)c
Date Collected: 02/27/13 12:47
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*87 - 114*		*03/04/13 17:18*	*1*
Dibromofluoromethane	*98*		*81 - 113*		*03/04/13 17:18*	*1*
Toluene-d8 (Surr)	*97*		*87 - 112*		*03/04/13 17:18*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/06/13 10:00	03/06/13 20:48	1
EDB	0.0061	J U	0.019	0.0061	ug/L		03/06/13 10:00	03/06/13 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*123*		*56 - 144*	*03/06/13 10:00*	*03/06/13 20:48*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 13:57	03/10/13 08:34	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 13:57	03/10/13 08:34	1
Barium	**7.3**		5.0	1.3	ug/L		03/08/13 13:57	03/10/13 08:34	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 13:57	03/10/13 08:34	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 13:57	03/10/13 08:34	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 13:57	03/10/13 08:34	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 13:57	03/10/13 08:34	1
Copper	**1.2**	**I**	5.0	1.1	ug/L		03/08/13 13:57	03/10/13 08:34	1
Iron	**110**		100	33	ug/L		03/08/13 13:57	03/10/13 08:34	1
Lead	**0.80**	**I**	1.5	0.20	ug/L		03/08/13 13:57	03/10/13 08:34	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 13:57	03/10/13 08:34	1
Selenium	**2.6**		2.5	1.0	ug/L		03/08/13 13:57	03/10/13 08:34	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 13:57	03/10/13 08:34	1
Sodium	**4.0**		0.50	0.25	mg/L		03/08/13 13:57	03/10/13 08:34	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 13:57	03/10/13 08:34	1
Vanadium	**14**		10	3.8	ug/L		03/08/13 13:57	03/10/13 08:34	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 13:57	03/10/13 08:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/05/13 10:29	03/06/13 20:52	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.3**		5.0	1.0	mg/L			03/12/13 00:14	5
Ammonia (as N)	**0.15**		0.050	0.026	mg/L			03/11/13 14:41	1
Nitrate Nitrite as N	**0.020**		0.010	0.0054	mg/L			02/28/13 14:37	1
Nitrate as N	**0.020**		0.010	0.0054	mg/L			03/01/13 09:20	1
Total Dissolved Solids	**120**		5.0	5.0	mg/L			03/05/13 08:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Brown Tint**				PCU			02/27/13 12:46	1
Field pH	**5.45**				SU			02/27/13 12:46	1
Field Temperature	**22.2**				Degrees C			02/27/13 12:46	1
Oxygen, Dissolved	**0.5**				mg/L			02/27/13 12:46	1
Sheen	**None**				NONE			02/27/13 12:46	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-12(S)c
Date Collected: 02/27/13 12:47
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-9
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	157				umhos/cm			02/27/13 12:46	1
Turbidity	36.75				NTU			02/27/13 12:46	1
Water Level	113.76				ft			02/27/13 12:46	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-12(1)c
Date Collected: 02/27/13 12:16
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/04/13 17:43	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/04/13 17:43	1
Benzene	**0.14**	**I**	1.0	0.13	ug/L			03/04/13 17:43	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/04/13 17:43	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/04/13 17:43	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/04/13 17:43	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/04/13 17:43	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/04/13 17:43	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/04/13 17:43	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/04/13 17:43	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/04/13 17:43	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/04/13 17:43	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/04/13 17:43	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/04/13 17:43	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/04/13 17:43	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 17:43	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/04/13 17:43	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/04/13 17:43	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/04/13 17:43	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/04/13 17:43	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/04/13 17:43	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 17:43	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/04/13 17:43	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/04/13 17:43	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/04/13 17:43	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/04/13 17:43	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/04/13 17:43	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/04/13 17:43	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/04/13 17:43	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/04/13 17:43	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/04/13 17:43	1
Styrene	0.12	U	1.0	0.12	ug/L			03/04/13 17:43	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/04/13 17:43	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/04/13 17:43	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/04/13 17:43	1
Toluene	**0.26**	**I**	1.0	0.14	ug/L			03/04/13 17:43	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/04/13 17:43	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/04/13 17:43	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 17:43	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/04/13 17:43	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 17:43	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/04/13 17:43	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/04/13 17:43	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/04/13 17:43	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/04/13 17:43	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/04/13 17:43	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/04/13 17:43	1

Client Sample ID: MWB-12(1)c
Date Collected: 02/27/13 12:16
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*87 - 114*		*03/04/13 17:43*	*1*
Dibromofluoromethane	*101*		*81 - 113*		*03/04/13 17:43*	*1*
Toluene-d8 (Surr)	*95*		*87 - 112*		*03/04/13 17:43*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/06/13 10:00	03/06/13 21:01	1
EDB	0.0061	J U	0.019	0.0061	ug/L		03/06/13 10:00	03/06/13 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*112*		*56 - 144*	*03/06/13 10:00*	*03/06/13 21:01*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 13:57	03/10/13 08:41	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 13:57	03/10/13 08:41	1
Barium	**48**		5.0	1.3	ug/L		03/08/13 13:57	03/10/13 08:41	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 13:57	03/10/13 08:41	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 13:57	03/10/13 08:41	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 13:57	03/10/13 08:41	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 13:57	03/10/13 08:41	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 13:57	03/10/13 08:41	1
Iron	**310**		100	33	ug/L		03/08/13 13:57	03/10/13 08:41	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 13:57	03/10/13 08:41	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 13:57	03/10/13 08:41	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 13:57	03/10/13 08:41	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 13:57	03/10/13 08:41	1
Sodium	**3.0**		0.50	0.25	mg/L		03/08/13 13:57	03/10/13 08:41	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 13:57	03/10/13 08:41	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 13:57	03/10/13 08:41	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 13:57	03/10/13 08:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/05/13 10:29	03/06/13 20:54	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.5**	**I**	5.0	1.0	mg/L			03/12/13 00:27	5
Ammonia (as N)	**0.056**		0.050	0.026	mg/L			03/11/13 14:23	1
Nitrate Nitrite as N	**0.022**		0.010	0.0054	mg/L			02/28/13 14:39	1
Nitrate as N	**0.022**		0.010	0.0054	mg/L			03/01/13 09:20	1
Total Dissolved Solids	**32**		5.0	5.0	mg/L			03/05/13 08:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/27/13 12:15	1
Field pH	**5.12**				SU			02/27/13 12:15	1
Field Temperature	**24.6**				Degrees C			02/27/13 12:15	1
Oxygen, Dissolved	**0.3**				mg/L			02/27/13 12:15	1
Sheen	**None**				NONE			02/27/13 12:15	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-12(1)c
Date Collected: 02/27/13 12:16
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-10
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	24				umhos/cm			02/27/13 12:15	1
Turbidity	2.16				NTU			02/27/13 12:15	1
Water Level	117.4				ft			02/27/13 12:15	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-12(D)c
Date Collected: 02/27/13 11:43
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/04/13 18:07	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/04/13 18:07	1
Benzene	0.13	U	1.0	0.13	ug/L			03/04/13 18:07	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/04/13 18:07	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/04/13 18:07	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/04/13 18:07	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/04/13 18:07	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/04/13 18:07	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/04/13 18:07	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/04/13 18:07	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/04/13 18:07	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/04/13 18:07	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/04/13 18:07	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/04/13 18:07	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/04/13 18:07	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 18:07	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/04/13 18:07	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/04/13 18:07	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/04/13 18:07	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/04/13 18:07	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/04/13 18:07	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 18:07	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/04/13 18:07	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/04/13 18:07	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/04/13 18:07	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/04/13 18:07	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/04/13 18:07	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/04/13 18:07	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/04/13 18:07	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/04/13 18:07	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/04/13 18:07	1
Styrene	0.12	U	1.0	0.12	ug/L			03/04/13 18:07	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/04/13 18:07	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/04/13 18:07	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/04/13 18:07	1
Toluene	0.14	U	1.0	0.14	ug/L			03/04/13 18:07	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/04/13 18:07	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/04/13 18:07	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 18:07	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/04/13 18:07	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 18:07	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/04/13 18:07	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/04/13 18:07	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/04/13 18:07	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/04/13 18:07	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/04/13 18:07	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/04/13 18:07	1

Client Sample ID: MWB-12(D)c

Date Collected: 02/27/13 11:43
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-11

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*87 - 114*		*03/04/13 18:07*	*1*
Dibromofluoromethane	*95*		*81 - 113*		*03/04/13 18:07*	*1*
Toluene-d8 (Surr)	*97*		*87 - 112*		*03/04/13 18:07*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/06/13 10:00	03/06/13 21:15	1
EDB	0.0061	J U	0.019	0.0061	ug/L		03/06/13 10:00	03/06/13 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*111*		*56 - 144*	*03/06/13 10:00*	*03/06/13 21:15*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 13:57	03/10/13 09:01	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 13:57	03/10/13 09:01	1
Barium	**130**		5.0	1.3	ug/L		03/08/13 13:57	03/10/13 09:01	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 13:57	03/10/13 09:01	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 13:57	03/10/13 09:01	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 13:57	03/10/13 09:01	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 13:57	03/10/13 09:01	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 13:57	03/10/13 09:01	1
Iron	**1800**		100	33	ug/L		03/08/13 13:57	03/10/13 09:01	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 13:57	03/10/13 09:01	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 13:57	03/10/13 09:01	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 13:57	03/10/13 09:01	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 13:57	03/10/13 09:01	1
Sodium	**5.5**		0.50	0.25	mg/L		03/08/13 13:57	03/10/13 09:01	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 13:57	03/10/13 09:01	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 13:57	03/10/13 09:01	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 13:57	03/10/13 09:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/05/13 12:16	03/06/13 21:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.0**	**I**	5.0	1.0	mg/L			03/12/13 00:41	5
Ammonia (as N)	**0.24**		0.050	0.026	mg/L			03/11/13 14:41	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			02/28/13 14:40	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 09:20	1
Total Dissolved Solids	**200**		10	10	mg/L			03/05/13 08:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/27/13 11:42	1
Field pH	**7.04**				SU			02/27/13 11:42	1
Field Temperature	**24.0**				Degrees C			02/27/13 11:42	1
Oxygen, Dissolved	**0.0**				mg/L			02/27/13 11:42	1
Sheen	**None**				NONE			02/27/13 11:42	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-12(D)c
Date Collected: 02/27/13 11:43
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-11
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	362				umhos/cm			02/27/13 11:42	1
Turbidity	5.65				NTU			02/27/13 11:42	1
Water Level	119.31				ft			02/27/13 11:42	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: Trip Blank 01 42469
Date Collected: 02/27/13 00:00
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/04/13 13:40	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/04/13 13:40	1
Benzene	0.13	U	1.0	0.13	ug/L			03/04/13 13:40	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/04/13 13:40	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/04/13 13:40	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/04/13 13:40	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/04/13 13:40	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/04/13 13:40	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/04/13 13:40	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/04/13 13:40	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/04/13 13:40	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/04/13 13:40	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/04/13 13:40	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/04/13 13:40	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/04/13 13:40	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 13:40	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/04/13 13:40	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/04/13 13:40	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/04/13 13:40	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/04/13 13:40	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/04/13 13:40	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 13:40	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/04/13 13:40	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/04/13 13:40	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/04/13 13:40	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/04/13 13:40	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/04/13 13:40	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/04/13 13:40	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/04/13 13:40	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/04/13 13:40	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/04/13 13:40	1
Styrene	0.12	U	1.0	0.12	ug/L			03/04/13 13:40	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/04/13 13:40	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/04/13 13:40	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/04/13 13:40	1
Toluene	0.14	U	1.0	0.14	ug/L			03/04/13 13:40	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/04/13 13:40	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/04/13 13:40	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 13:40	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/04/13 13:40	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 13:40	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/04/13 13:40	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/04/13 13:40	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/04/13 13:40	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/04/13 13:40	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/04/13 13:40	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/04/13 13:40	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: Trip Blank 01 42469
Date Collected: 02/27/13 00:00
Date Received: 02/28/13 08:00

Lab Sample ID: 640-42469-12
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		87 - 114		03/04/13 13:40	1
Dibromofluoromethane	101		81 - 113		03/04/13 13:40	1
Toluene-d8 (Surr)	99		87 - 112		03/04/13 13:40	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-20(S)c
Date Collected: 02/27/13 18:19
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 15:21	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 15:21	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 15:21	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 15:21	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 15:21	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 15:21	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 15:21	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 15:21	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 15:21	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 15:21	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 15:21	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 15:21	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 15:21	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 15:21	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 15:21	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 15:21	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 15:21	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 15:21	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 15:21	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 15:21	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 15:21	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 15:21	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 15:21	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 15:21	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 15:21	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 15:21	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 15:21	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 15:21	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 15:21	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 15:21	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 15:21	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 15:21	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 15:21	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 15:21	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 15:21	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 15:21	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 15:21	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 15:21	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 15:21	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 15:21	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 15:21	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 15:21	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 15:21	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 15:21	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 15:21	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 15:21	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 15:21	1

Client Sample ID: MWB-20(S)c

Date Collected: 02/27/13 18:19
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*87 - 114*		*03/05/13 15:21*	*1*
Dibromofluoromethane	*91*		*81 - 113*		*03/05/13 15:21*	*1*
Toluene-d8 (Surr)	*102*		*87 - 112*		*03/05/13 15:21*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/07/13 19:05	03/08/13 04:11	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/07/13 19:05	03/08/13 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*142*		*56 - 144*	*03/07/13 19:05*	*03/08/13 04:11*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 03:33	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 03:33	1
Barium	**9.7**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 03:33	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 03:33	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 03:33	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 03:33	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 03:33	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 03:33	1
Iron	**130**		100	33	ug/L		03/08/13 12:45	03/10/13 03:33	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 03:33	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 03:33	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 03:33	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 03:33	1
Sodium	**3.8**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 03:33	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 03:33	1
Vanadium	**4.0**	**I**	10	3.8	ug/L		03/08/13 12:45	03/10/13 03:33	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 03:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 15:29	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.7**		5.0	1.0	mg/L			03/12/13 16:14	5
Ammonia (as N)	**0.17**		0.050	0.026	mg/L			03/11/13 14:23	1
Nitrate Nitrite as N	**0.23**		0.010	0.0054	mg/L			03/01/13 14:14	1
Nitrate as N	**0.23**		0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**36**		5.0	5.0	mg/L			03/05/13 12:32	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/27/13 18:18	1
Field pH	**4.2**				SU			02/27/13 18:18	1
Field Temperature	**19.7**				Degrees C			02/27/13 18:18	1
Oxygen, Dissolved	**0.0**				mg/L			02/27/13 18:18	1
Sheen	**None**				NONE			02/27/13 18:18	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-20(S)c
Date Collected: 02/27/13 18:19
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-1
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	62				umhos/cm			02/27/13 18:18	1
Turbidity	2.51				NTU			02/27/13 18:18	1
Water Level	113.56				ft			02/27/13 18:18	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-21(S)c
Date Collected: 02/27/13 17:44
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 15:43	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 15:43	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 15:43	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 15:43	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 15:43	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 15:43	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 15:43	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 15:43	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 15:43	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 15:43	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 15:43	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 15:43	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 15:43	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 15:43	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 15:43	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 15:43	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 15:43	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 15:43	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 15:43	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 15:43	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 15:43	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 15:43	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 15:43	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 15:43	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 15:43	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 15:43	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 15:43	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 15:43	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 15:43	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 15:43	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 15:43	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 15:43	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 15:43	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 15:43	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 15:43	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 15:43	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 15:43	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 15:43	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 15:43	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 15:43	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 15:43	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 15:43	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 15:43	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 15:43	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 15:43	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 15:43	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 15:43	1

Client Sample ID: MWB-21(S)c
Date Collected: 02/27/13 17:44
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*87 - 114*		*03/05/13 15:43*	*1*
Dibromofluoromethane	*90*		*81 - 113*		*03/05/13 15:43*	*1*
Toluene-d8 (Surr)	*105*		*87 - 112*		*03/05/13 15:43*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/07/13 19:05	03/08/13 04:25	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/07/13 19:05	03/08/13 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*131*		*56 - 144*	*03/07/13 19:05*	*03/08/13 04:25*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 03:40	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 03:40	1
Barium	**18**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 03:40	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 03:40	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 03:40	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 03:40	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 03:40	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 03:40	1
Iron	**610**		100	33	ug/L		03/08/13 12:45	03/10/13 03:40	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 03:40	1
Nickel	**2.1**	**I**	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 03:40	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 03:40	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 03:40	1
Sodium	**3.1**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 03:40	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 03:40	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 03:40	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 03:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 15:32	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.3**		5.0	1.0	mg/L			03/12/13 16:28	5
Ammonia (as N)	**0.18**		0.050	0.026	mg/L			03/11/13 14:23	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 14:24	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**30**		5.0	5.0	mg/L			03/05/13 12:32	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Sl Yellow Tint**				PCU			02/27/13 17:43	1
Field pH	**4.82**				SU			02/27/13 17:43	1
Field Temperature	**21.6**				Degrees C			02/27/13 17:43	1
Oxygen, Dissolved	**0.0**				mg/L			02/27/13 17:43	1
Sheen	**None**				NONE			02/27/13 17:43	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-21(S)c
Date Collected: 02/27/13 17:44
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-2
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	49				umhos/cm			02/27/13 17:43	1
Turbidity	3.91				NTU			02/27/13 17:43	1
Water Level	112.08				ft			02/27/13 17:43	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-32(D)d
Date Collected: 02/27/13 17:12
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 16:05	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 16:05	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 16:05	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 16:05	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 16:05	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 16:05	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 16:05	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 16:05	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 16:05	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 16:05	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 16:05	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 16:05	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 16:05	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 16:05	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 16:05	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 16:05	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 16:05	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 16:05	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 16:05	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 16:05	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 16:05	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 16:05	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 16:05	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 16:05	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 16:05	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 16:05	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 16:05	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 16:05	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 16:05	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 16:05	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 16:05	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 16:05	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 16:05	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 16:05	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 16:05	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 16:05	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 16:05	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 16:05	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 16:05	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 16:05	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 16:05	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 16:05	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 16:05	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 16:05	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 16:05	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 16:05	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 16:05	1

Client Sample ID: MWB-32(D)d
Date Collected: 02/27/13 17:12
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*87 - 114*		*03/05/13 16:05*	*1*
Dibromofluoromethane	*89*		*81 - 113*		*03/05/13 16:05*	*1*
Toluene-d8 (Surr)	*102*		*87 - 112*		*03/05/13 16:05*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0056	U	0.018	0.0056	ug/L		03/07/13 19:05	03/08/13 04:38	1
EDB	0.0060	U	0.018	0.0060	ug/L		03/07/13 19:05	03/08/13 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*130*		*56 - 144*	*03/07/13 19:05*	*03/08/13 04:38*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 03:47	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 03:47	1
Barium	**37**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 03:47	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 03:47	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 03:47	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 03:47	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 03:47	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 03:47	1
Iron	**460**		100	33	ug/L		03/08/13 12:45	03/10/13 03:47	1
Lead	**0.23**	**I**	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 03:47	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 03:47	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 03:47	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 03:47	1
Sodium	**3.9**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 03:47	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 03:47	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 03:47	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 03:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 15:39	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.6**		5.0	1.0	mg/L			03/12/13 16:41	5
Ammonia (as N)	**0.13**		0.050	0.026	mg/L			03/11/13 14:23	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 14:26	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**40**		5.0	5.0	mg/L			03/05/13 12:32	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/27/13 17:11	1
Field pH	**5.68**				SU			02/27/13 17:11	1
Field Temperature	**21.1**				Degrees C			02/27/13 17:11	1
Oxygen, Dissolved	**0.4**				mg/L			02/27/13 17:11	1
Sheen	**None**				NONE			02/27/13 17:11	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-32(D)d
Date Collected: 02/27/13 17:12
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-3
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	70				umhos/cm			02/27/13 17:11	1
Turbidity	3.7				NTU			02/27/13 17:11	1
Water Level	118.01				ft			02/27/13 17:11	1

Client Sample ID: MWB-32(I)d
Date Collected: 02/27/13 16:23
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 15:00	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 15:00	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 15:00	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 15:00	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 15:00	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 15:00	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 15:00	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 15:00	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 15:00	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 15:00	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 15:00	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 15:00	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 15:00	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 15:00	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 15:00	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 15:00	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 15:00	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 15:00	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 15:00	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 15:00	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 15:00	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 15:00	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 15:00	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 15:00	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 15:00	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 15:00	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 15:00	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 15:00	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 15:00	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 15:00	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 15:00	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 15:00	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 15:00	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 15:00	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 15:00	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 15:00	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 15:00	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 15:00	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 15:00	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 15:00	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 15:00	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 15:00	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 15:00	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 15:00	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 15:00	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 15:00	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 15:00	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-32(I)d
Date Collected: 02/27/13 16:23
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*87 - 114*		*03/05/13 15:00*	*1*
Dibromofluoromethane	*90*		*81 - 113*		*03/05/13 15:00*	*1*
Toluene-d8 (Surr)	*105*		*87 - 112*		*03/05/13 15:00*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/07/13 19:05	03/08/13 04:51	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/07/13 19:05	03/08/13 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*135*		*56 - 144*	*03/07/13 19:05*	*03/08/13 04:51*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 03:53	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 03:53	1
Barium	**37**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 03:53	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 03:53	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 03:53	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 03:53	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 03:53	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 03:53	1
Iron	**350**		100	33	ug/L		03/08/13 12:45	03/10/13 03:53	1
Lead	**2.2**		1.5	0.20	ug/L		03/08/13 12:45	03/10/13 03:53	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 03:53	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 03:53	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 03:53	1
Sodium	**2.8**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 03:53	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 03:53	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 03:53	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 03:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 15:42	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.5**	**I**	5.0	1.0	mg/L			03/12/13 16:54	5
Ammonia (as N)	**0.067**		0.050	0.026	mg/L			03/11/13 14:23	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 14:28	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**48**		5.0	5.0	mg/L			03/05/13 12:32	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Sl Whitish Tint**				PCU			02/27/13 16:22	1
Field pH	**5.18**				SU			02/27/13 16:22	1
Field Temperature	**21.2**				Degrees C			02/27/13 16:22	1
Oxygen, Dissolved	**0.3**				mg/L			02/27/13 16:22	1
Sheen	**None**				NONE			02/27/13 16:22	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-32(I)d
Date Collected: 02/27/13 16:23
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-4
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	21				umhos/cm			02/27/13 16:22	1
Turbidity	19.37				NTU			02/27/13 16:22	1
Water Level	118.21				ft			02/27/13 16:22	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-29(S)c
Date Collected: 02/28/13 10:59
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 16:26	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 16:26	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 16:26	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 16:26	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 16:26	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 16:26	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 16:26	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 16:26	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 16:26	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 16:26	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 16:26	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 16:26	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 16:26	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 16:26	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 16:26	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 16:26	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 16:26	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 16:26	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 16:26	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 16:26	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 16:26	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 16:26	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 16:26	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 16:26	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 16:26	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 16:26	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 16:26	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 16:26	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 16:26	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 16:26	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 16:26	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 16:26	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 16:26	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 16:26	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 16:26	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 16:26	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 16:26	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 16:26	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 16:26	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 16:26	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 16:26	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 16:26	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 16:26	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 16:26	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 16:26	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 16:26	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 16:26	1

Client Sample ID: MWB-29(S)c
Date Collected: 02/28/13 10:59
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*87 - 114*		*03/05/13 16:26*	*1*
Dibromofluoromethane	*90*		*81 - 113*		*03/05/13 16:26*	*1*
Toluene-d8 (Surr)	*101*		*87 - 112*		*03/05/13 16:26*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0056	U	0.019	0.0056	ug/L		03/07/13 19:05	03/08/13 05:05	1
EDB	0.0060	U	0.019	0.0060	ug/L		03/07/13 19:05	03/08/13 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*138*		*56 - 144*	*03/07/13 19:05*	*03/08/13 05:05*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 04:00	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 04:00	1
Barium	**24**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 04:00	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 04:00	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 04:00	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 04:00	1
Cobalt	**0.27**	**I**	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 04:00	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 04:00	1
Iron	**760**		100	33	ug/L		03/08/13 12:45	03/10/13 04:00	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 04:00	1
Nickel	**2.2**	**I**	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 04:00	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 04:00	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 04:00	1
Sodium	**11**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 04:00	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 04:00	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 04:00	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 04:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 15:44	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21**		5.0	1.0	mg/L			03/12/13 17:07	5
Ammonia (as N)	**0.45**		0.050	0.026	mg/L			03/11/13 14:23	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 14:29	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**46**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/28/13 10:58	1
Field pH	**4.37**				SU			02/28/13 10:58	1
Field Temperature	**17.9**				Degrees C			02/28/13 10:58	1
Oxygen, Dissolved	**0.3**				mg/L			02/28/13 10:58	1
Sheen	**None**				NONE			02/28/13 10:58	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-29(S)c
Date Collected: 02/28/13 10:59
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-5
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	94				umhos/cm			02/28/13 10:58	1
Turbidity	1.14				NTU			02/28/13 10:58	1
Water Level	130.54				ft			02/28/13 10:58	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-29(I)c
Date Collected: 02/28/13 10:26
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 16:48	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 16:48	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 16:48	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 16:48	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 16:48	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 16:48	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 16:48	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 16:48	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 16:48	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 16:48	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 16:48	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 16:48	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 16:48	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 16:48	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 16:48	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 16:48	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 16:48	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 16:48	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 16:48	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 16:48	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 16:48	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 16:48	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 16:48	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 16:48	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 16:48	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 16:48	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 16:48	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 16:48	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 16:48	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 16:48	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 16:48	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 16:48	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 16:48	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 16:48	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 16:48	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 16:48	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 16:48	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 16:48	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 16:48	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 16:48	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 16:48	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 16:48	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 16:48	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 16:48	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 16:48	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 16:48	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 16:48	1

Client Sample ID: MWB-29(I)c
Date Collected: 02/28/13 10:26
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*87 - 114*		*03/05/13 16:48*	*1*
Dibromofluoromethane	*91*		*81 - 113*		*03/05/13 16:48*	*1*
Toluene-d8 (Surr)	*102*		*87 - 112*		*03/05/13 16:48*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/07/13 19:05	03/08/13 05:18	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/07/13 19:05	03/08/13 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*135*		*56 - 144*	*03/07/13 19:05*	*03/08/13 05:18*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 04:07	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 04:07	1
Barium	**42**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 04:07	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 04:07	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 04:07	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 04:07	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 04:07	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 04:07	1
Iron	**430**		100	33	ug/L		03/08/13 12:45	03/10/13 04:07	1
Lead	**0.51**	**I**	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 04:07	1
Nickel	**2.0**	**I**	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 04:07	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 04:07	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 04:07	1
Sodium	**3.5**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 04:07	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 04:07	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 04:07	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 04:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 15:52	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.0**		5.0	1.0	mg/L			03/12/13 17:21	5
Ammonia (as N)	**0.074**		0.050	0.026	mg/L			03/11/13 14:23	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 14:31	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**18**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/28/13 10:25	1
Field pH	**4.96**				SU			02/28/13 10:25	1
Field Temperature	**20.6**				Degrees C			02/28/13 10:25	1
Oxygen, Dissolved	**0.3**				mg/L			02/28/13 10:25	1
Sheen	**None**				NONE			02/28/13 10:25	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-29(I)c
Date Collected: 02/28/13 10:26
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-6
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	30				umhos/cm			02/28/13 10:25	1
Turbidity	11.8				NTU			02/28/13 10:25	1
Water Level	133.24				ft			02/28/13 10:25	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-29(D)c
Date Collected: 02/28/13 09:48
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 17:10	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 17:10	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 17:10	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 17:10	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 17:10	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 17:10	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 17:10	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 17:10	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 17:10	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 17:10	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 17:10	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 17:10	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 17:10	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 17:10	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 17:10	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 17:10	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 17:10	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 17:10	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 17:10	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 17:10	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 17:10	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 17:10	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 17:10	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 17:10	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 17:10	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 17:10	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 17:10	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 17:10	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 17:10	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 17:10	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 17:10	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 17:10	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 17:10	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 17:10	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 17:10	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 17:10	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 17:10	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 17:10	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 17:10	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 17:10	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 17:10	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 17:10	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 17:10	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 17:10	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 17:10	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 17:10	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 17:10	1

Client Sample ID: MWB-29(D)c

Date Collected: 02/28/13 09:48
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*87 - 114*		*03/05/13 17:10*	*1*
Dibromofluoromethane	*91*		*81 - 113*		*03/05/13 17:10*	*1*
Toluene-d8 (Surr)	*102*		*87 - 112*		*03/05/13 17:10*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/07/13 19:05	03/08/13 05:32	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/07/13 19:05	03/08/13 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*127*		*56 - 144*	*03/07/13 19:05*	*03/08/13 05:32*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 04:13	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 04:13	1
Barium	**48**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 04:13	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 04:13	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 04:13	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 04:13	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 04:13	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 04:13	1
Iron	**600**		100	33	ug/L		03/08/13 12:45	03/10/13 04:13	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 04:13	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 04:13	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 04:13	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 04:13	1
Sodium	**3.3**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 04:13	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 04:13	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 04:13	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 04:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 15:54	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.4**		5.0	1.0	mg/L			03/12/13 17:34	5
Ammonia (as N)	**0.11**		0.050	0.026	mg/L			03/11/13 14:23	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 14:36	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**24**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/28/13 09:47	1
Field pH	**5.44**				SU			02/28/13 09:47	1
Field Temperature	**20.4**				Degrees C			02/28/13 09:47	1
Oxygen, Dissolved	**0.0**				mg/L			02/28/13 09:47	1
Sheen	**None**				NONE			02/28/13 09:47	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-29(D)c
Date Collected: 02/28/13 09:48
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-7
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	54				umhos/cm			02/28/13 09:47	1
Turbidity	2.02				NTU			02/28/13 09:47	1
Water Level	133.2				ft			02/28/13 09:47	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-27(S)c
Date Collected: 02/28/13 09:06
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 17:31	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 17:31	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 17:31	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 17:31	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 17:31	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 17:31	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 17:31	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 17:31	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 17:31	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 17:31	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 17:31	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 17:31	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 17:31	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 17:31	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 17:31	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 17:31	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 17:31	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 17:31	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 17:31	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 17:31	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 17:31	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 17:31	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 17:31	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 17:31	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 17:31	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 17:31	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 17:31	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 17:31	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 17:31	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 17:31	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 17:31	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 17:31	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 17:31	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 17:31	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 17:31	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 17:31	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 17:31	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 17:31	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 17:31	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 17:31	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 17:31	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 17:31	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 17:31	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 17:31	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 17:31	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 17:31	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 17:31	1

Client Sample ID: MWB-27(S)c

Date Collected: 02/28/13 09:06
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*87 - 114*		*03/05/13 17:31*	*1*
Dibromofluoromethane	*91*		*81 - 113*		*03/05/13 17:31*	*1*
Toluene-d8 (Surr)	*104*		*87 - 112*		*03/05/13 17:31*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/10/13 09:15	03/10/13 21:38	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/10/13 09:15	03/10/13 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*106*		*56 - 144*	*03/10/13 09:15*	*03/10/13 21:38*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 04:20	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 04:20	1
Barium	**15**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 04:20	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 04:20	1
Cadmium	**0.20**	**I**	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 04:20	1
Chromium	**3.7**	**I**	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 04:20	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 04:20	1
Copper	**1.8**	**I**	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 04:20	1
Iron	**160**		100	33	ug/L		03/08/13 12:45	03/10/13 04:20	1
Lead	**4.3**		1.5	0.20	ug/L		03/08/13 12:45	03/10/13 04:20	1
Nickel	**2.0**	**I**	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 04:20	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 04:20	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 04:20	1
Sodium	**11**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 04:20	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 04:20	1
Vanadium	**14**		10	3.8	ug/L		03/08/13 12:45	03/10/13 04:20	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 04:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 15:56	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.0**		5.0	1.0	mg/L			03/12/13 18:32	5
Ammonia (as N)	**0.057**		0.050	0.026	mg/L			03/11/13 14:24	1
Nitrate Nitrite as N	**4.4**		0.10	0.054	mg/L			03/01/13 15:09	10
Nitrate as N	**4.4**		0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**100**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Lt Brown Tint**				PCU			02/28/13 09:05	1
Field pH	**5.33**				SU			02/28/13 09:05	1
Field Temperature	**17.4**				Degrees C			02/28/13 09:05	1
Oxygen, Dissolved	**0.0**				mg/L			02/28/13 09:05	1
Sheen	**None**				NONE			02/28/13 09:05	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-27(S)c
Date Collected: 02/28/13 09:06
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-8
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	121				umhos/cm			02/28/13 09:05	1
Turbidity	10.25				NTU			02/28/13 09:05	1
Water Level	122.4				ft			02/28/13 09:05	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-27(I)c
Date Collected: 02/28/13 08:33
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 17:53	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 17:53	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 17:53	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 17:53	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 17:53	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 17:53	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 17:53	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 17:53	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 17:53	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 17:53	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 17:53	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 17:53	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 17:53	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 17:53	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 17:53	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 17:53	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 17:53	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 17:53	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 17:53	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 17:53	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 17:53	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 17:53	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 17:53	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 17:53	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 17:53	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 17:53	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 17:53	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 17:53	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 17:53	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 17:53	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 17:53	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 17:53	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 17:53	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 17:53	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 17:53	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 17:53	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 17:53	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 17:53	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 17:53	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 17:53	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 17:53	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 17:53	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 17:53	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 17:53	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 17:53	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 17:53	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 17:53	1

Client Sample ID: MWB-27(I)c

Date Collected: 02/28/13 08:33
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-9

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*87 - 114*		*03/05/13 17:53*	*1*
Dibromofluoromethane	*90*		*81 - 113*		*03/05/13 17:53*	*1*
Toluene-d8 (Surr)	*101*		*87 - 112*		*03/05/13 17:53*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0056	U	0.018	0.0056	ug/L		03/10/13 09:15	03/10/13 21:51	1
EDB	0.0060	U	0.018	0.0060	ug/L		03/10/13 09:15	03/10/13 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*108*		*56 - 144*	*03/10/13 09:15*	*03/10/13 21:51*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 04:40	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 04:40	1
Barium	**48**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 04:40	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 04:40	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 04:40	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 04:40	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 04:40	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 04:40	1
Iron	**430**		100	33	ug/L		03/08/13 12:45	03/10/13 04:40	1
Lead	**0.29**	**I**	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 04:40	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 04:40	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 04:40	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 04:40	1
Sodium	**3.0**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 04:40	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 04:40	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 04:40	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 04:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 15:59	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.9**	**I**	5.0	1.0	mg/L			03/12/13 19:25	5
Ammonia (as N)	**0.11**		0.050	0.026	mg/L			03/11/13 14:24	1
Nitrate Nitrite as N	**0.11**		0.010	0.0054	mg/L			03/01/13 14:43	1
Nitrate as N	**0.11**		0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**20**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/28/13 08:32	1
Field pH	**5.37**				SU			02/28/13 08:32	1
Field Temperature	**19.4**				Degrees C			02/28/13 08:32	1
Oxygen, Dissolved	**0.3**				mg/L			02/28/13 08:32	1
Sheen	**None**				NONE			02/28/13 08:32	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-27(I)c
Date Collected: 02/28/13 08:33
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-9
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	27				umhos/cm			02/28/13 08:32	1
Turbidity	5.05				NTU			02/28/13 08:32	1
Water Level	123.63				ft			02/28/13 08:32	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-27(D)c
Date Collected: 02/28/13 07:54
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 18:15	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 18:15	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 18:15	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 18:15	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 18:15	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 18:15	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 18:15	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 18:15	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 18:15	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 18:15	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 18:15	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 18:15	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 18:15	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 18:15	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 18:15	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 18:15	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 18:15	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 18:15	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 18:15	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 18:15	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 18:15	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 18:15	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 18:15	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 18:15	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 18:15	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 18:15	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 18:15	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 18:15	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 18:15	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 18:15	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 18:15	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 18:15	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 18:15	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 18:15	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 18:15	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 18:15	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 18:15	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 18:15	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 18:15	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 18:15	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 18:15	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 18:15	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 18:15	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 18:15	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 18:15	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 18:15	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 18:15	1

Client Sample ID: MWB-27(D)c
Date Collected: 02/28/13 07:54
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*87 - 114*		*03/05/13 18:15*	*1*
Dibromofluoromethane	*95*		*81 - 113*		*03/05/13 18:15*	*1*
Toluene-d8 (Surr)	*103*		*87 - 112*		*03/05/13 18:15*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/10/13 09:15	03/10/13 22:05	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/10/13 09:15	03/10/13 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*112*		*56 - 144*	*03/10/13 09:15*	*03/10/13 22:05*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 05:13	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 05:13	1
Barium	**50**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 05:13	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 05:13	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 05:13	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 05:13	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 05:13	1
Copper	**1.7**	**I**	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 05:13	1
Iron	**510**		100	33	ug/L		03/08/13 12:45	03/10/13 05:13	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 05:13	1
Nickel	**2.1**	**I**	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 05:13	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 05:13	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 05:13	1
Sodium	**3.3**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 05:13	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 05:13	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 05:13	1
Zinc	**13**	**I**	20	8.3	ug/L		03/08/13 12:45	03/10/13 05:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 16:01	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.4**	**I**	5.0	1.0	mg/L			03/12/13 19:38	5
Ammonia (as N)	**0.17**		0.050	0.026	mg/L			03/11/13 17:28	1
Nitrate Nitrite as N	**0.040**		0.010	0.0054	mg/L			03/01/13 14:53	1
Nitrate as N	**0.040**		0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**38**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/28/13 07:53	1
Field pH	**5.75**				SU			02/28/13 07:53	1
Field Temperature	**18.9**				Degrees C			02/28/13 07:53	1
Oxygen, Dissolved	**0.1**				mg/L			02/28/13 07:53	1
Sheen	**None**				NONE			02/28/13 07:53	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-27(D)c
Date Collected: 02/28/13 07:54
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-10
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	58				umhos/cm			02/28/13 07:53	1
Turbidity	0.44				NTU			02/28/13 07:53	1
Water Level	123.48				ft			02/28/13 07:53	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-2(I)b
Date Collected: 02/28/13 11:35
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 18:36	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 18:36	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 18:36	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 18:36	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 18:36	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 18:36	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 18:36	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 18:36	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 18:36	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 18:36	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 18:36	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 18:36	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 18:36	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 18:36	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 18:36	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 18:36	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 18:36	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 18:36	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 18:36	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 18:36	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 18:36	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 18:36	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 18:36	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 18:36	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 18:36	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 18:36	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 18:36	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 18:36	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 18:36	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 18:36	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 18:36	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 18:36	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 18:36	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 18:36	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 18:36	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 18:36	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 18:36	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 18:36	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 18:36	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 18:36	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 18:36	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 18:36	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 18:36	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 18:36	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 18:36	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 18:36	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 18:36	1

Client Sample ID: MWB-2(I)b
Date Collected: 02/28/13 11:35
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-11
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*87 - 114*		*03/05/13 18:36*	*1*
Dibromofluoromethane	*90*		*81 - 113*		*03/05/13 18:36*	*1*
Toluene-d8 (Surr)	*101*		*87 - 112*		*03/05/13 18:36*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/10/13 09:15	03/10/13 22:18	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/10/13 09:15	03/10/13 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*112*		*56 - 144*	*03/10/13 09:15*	*03/10/13 22:18*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 05:20	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 05:20	1
Barium	**20**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 05:20	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 05:20	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 05:20	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 05:20	1
Cobalt	**0.17**	**I**	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 05:20	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 05:20	1
Iron	**350**		100	33	ug/L		03/08/13 12:45	03/10/13 05:20	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 05:20	1
Nickel	**2.5**	**I**	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 05:20	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 05:20	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 05:20	1
Sodium	**4.0**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 05:20	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 05:20	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 05:20	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 05:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 16:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.2**		5.0	1.0	mg/L			03/12/13 19:51	5
Ammonia (as N)	**0.041**	**I**	0.050	0.026	mg/L			03/11/13 17:28	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 14:54	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**10**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/28/13 11:34	1
Field pH	**4.58**				SU			02/28/13 11:34	1
Field Temperature	**20.6**				Degrees C			02/28/13 11:34	1
Oxygen, Dissolved	**0.4**				mg/L			02/28/13 11:34	1
Sheen	**None**				NONE			02/28/13 11:34	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-2(I)b
Date Collected: 02/28/13 11:35
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-11
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	29				umhos/cm			02/28/13 11:34	1
Turbidity	1.43				NTU			02/28/13 11:34	1
Water Level	136.92				ft			02/28/13 11:34	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-3(S)b
Date Collected: 02/28/13 13:23
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 18:58	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 18:58	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 18:58	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 18:58	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 18:58	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 18:58	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 18:58	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 18:58	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 18:58	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 18:58	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 18:58	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 18:58	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 18:58	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 18:58	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 18:58	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 18:58	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 18:58	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 18:58	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 18:58	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 18:58	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 18:58	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 18:58	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 18:58	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 18:58	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 18:58	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 18:58	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 18:58	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 18:58	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 18:58	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 18:58	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 18:58	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 18:58	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 18:58	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 18:58	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 18:58	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 18:58	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 18:58	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 18:58	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 18:58	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 18:58	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 18:58	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 18:58	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 18:58	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 18:58	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 18:58	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 18:58	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 18:58	1

Client Sample ID: MWB-3(S)b
Date Collected: 02/28/13 13:23
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-12
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*87 - 114*		*03/05/13 18:58*	*1*
Dibromofluoromethane	*90*		*81 - 113*		*03/05/13 18:58*	*1*
Toluene-d8 (Surr)	*105*		*87 - 112*		*03/05/13 18:58*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/10/13 09:15	03/10/13 22:32	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/10/13 09:15	03/10/13 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*110*		*56 - 144*	*03/10/13 09:15*	*03/10/13 22:32*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 05:27	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 05:27	1
Barium	**17**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 05:27	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 05:27	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 05:27	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 05:27	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 05:27	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 05:27	1
Iron	**290**		100	33	ug/L		03/08/13 12:45	03/10/13 05:27	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 05:27	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 05:27	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 05:27	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 05:27	1
Sodium	**4.8**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 05:27	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 05:27	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 05:27	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 05:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 16:06	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**		5.0	1.0	mg/L			03/12/13 20:05	5
Ammonia (as N)	0.026	U	0.050	0.026	mg/L			03/11/13 17:28	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 14:56	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**10**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/28/13 13:22	1
Field pH	**3.95**				SU			02/28/13 13:22	1
Field Temperature	**19.5**				Degrees C			02/28/13 13:22	1
Oxygen, Dissolved	**0.7**				mg/L			02/28/13 13:22	1
Sheen	**None**				NONE			02/28/13 13:22	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-3(S)b
Date Collected: 02/28/13 13:23
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-12
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	47				umhos/cm			02/28/13 13:22	1
Turbidity	3.52				NTU			02/28/13 13:22	1
Water Level	145.39				ft			02/28/13 13:22	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-31(D)b
Date Collected: 02/28/13 12:48
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 13:54	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 13:54	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 13:54	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 13:54	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 13:54	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 13:54	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 13:54	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 13:54	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 13:54	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 13:54	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 13:54	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 13:54	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 13:54	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 13:54	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 13:54	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 13:54	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 13:54	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 13:54	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 13:54	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 13:54	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 13:54	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 13:54	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 13:54	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 13:54	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 13:54	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 13:54	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 13:54	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 13:54	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 13:54	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 13:54	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 13:54	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 13:54	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 13:54	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 13:54	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 13:54	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 13:54	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 13:54	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 13:54	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 13:54	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 13:54	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 13:54	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 13:54	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 13:54	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 13:54	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 13:54	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 13:54	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 13:54	1

Client Sample ID: MWB-31(D)b
Date Collected: 02/28/13 12:48
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*87 - 114*		*03/06/13 13:54*	*1*
Dibromofluoromethane	*94*		*81 - 113*		*03/06/13 13:54*	*1*
Toluene-d8 (Surr)	*103*		*87 - 112*		*03/06/13 13:54*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/10/13 09:15	03/10/13 22:45	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/10/13 09:15	03/10/13 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*113*		*56 - 144*	*03/10/13 09:15*	*03/10/13 22:45*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 05:33	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 05:33	1
Barium	**89**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 05:33	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 05:33	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 05:33	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 05:33	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 05:33	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 05:33	1
Iron	**770**		100	33	ug/L		03/08/13 12:45	03/10/13 05:33	1
Lead	**0.50**	**I**	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 05:33	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 05:33	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 05:33	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 05:33	1
Sodium	**5.9**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 05:33	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 05:33	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 05:33	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 05:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 16:09	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.1**		5.0	1.0	mg/L			03/12/13 20:18	5
Ammonia (as N)	**0.18**		0.050	0.026	mg/L			03/11/13 17:37	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 14:58	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**200**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/28/13 12:47	1
Field pH	**7.15**				SU			02/28/13 12:47	1
Field Temperature	**22.4**				Degrees C			02/28/13 12:47	1
Oxygen, Dissolved	**0.0**				mg/L			02/28/13 12:47	1
Sheen	**None**				NONE			02/28/13 12:47	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-31(D)b
Date Collected: 02/28/13 12:48
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-13
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	337				umhos/cm			02/28/13 12:47	1
Turbidity	6.33				NTU			02/28/13 12:47	1
Water Level	138.47				ft			02/28/13 12:47	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-2(S)b
Date Collected: 02/28/13 12:08
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 14:15	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 14:15	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 14:15	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 14:15	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 14:15	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 14:15	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 14:15	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 14:15	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 14:15	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 14:15	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 14:15	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 14:15	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 14:15	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 14:15	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 14:15	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 14:15	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 14:15	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 14:15	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 14:15	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 14:15	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 14:15	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 14:15	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 14:15	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 14:15	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 14:15	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 14:15	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 14:15	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 14:15	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 14:15	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 14:15	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 14:15	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 14:15	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 14:15	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 14:15	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 14:15	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 14:15	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 14:15	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 14:15	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 14:15	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 14:15	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 14:15	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 14:15	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 14:15	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 14:15	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 14:15	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 14:15	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 14:15	1

Client Sample ID: MWB-2(S)b
Date Collected: 02/28/13 12:08
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-14
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*87 - 114*		*03/06/13 14:15*	*1*
Dibromofluoromethane	*92*		*81 - 113*		*03/06/13 14:15*	*1*
Toluene-d8 (Surr)	*104*		*87 - 112*		*03/06/13 14:15*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/10/13 09:15	03/10/13 22:58	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/10/13 09:15	03/10/13 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*105*		*56 - 144*	*03/10/13 09:15*	*03/10/13 22:58*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 05:40	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 05:40	1
Barium	**9.4**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 05:40	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 05:40	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 05:40	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 05:40	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 05:40	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 05:40	1
Iron	**130**		100	33	ug/L		03/08/13 12:45	03/10/13 05:40	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 05:40	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 05:40	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 05:40	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 05:40	1
Sodium	**3.4**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 05:40	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 05:40	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 05:40	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 05:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 16:11	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.6**		5.0	1.0	mg/L			03/12/13 20:31	5
Ammonia (as N)	**0.053**		0.050	0.026	mg/L			03/11/13 17:37	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 14:59	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**22**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/28/13 12:07	1
Field pH	**4.31**				SU			02/28/13 12:07	1
Field Temperature	**18.9**				Degrees C			02/28/13 12:07	1
Oxygen, Dissolved	**1.0**				mg/L			02/28/13 12:07	1
Sheen	**None**				NONE			02/28/13 12:07	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-2(S)b
Date Collected: 02/28/13 12:08
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-14
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	52				umhos/cm			02/28/13 12:07	1
Turbidity	3.96				NTU			02/28/13 12:07	1
Water Level	137.93				ft			02/28/13 12:07	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-3(I)b
Date Collected: 02/28/13 14:02
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 14:37	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 14:37	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 14:37	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 14:37	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 14:37	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 14:37	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 14:37	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 14:37	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 14:37	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 14:37	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 14:37	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 14:37	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 14:37	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 14:37	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 14:37	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 14:37	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 14:37	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 14:37	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 14:37	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 14:37	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 14:37	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 14:37	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 14:37	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 14:37	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 14:37	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 14:37	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 14:37	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 14:37	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 14:37	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 14:37	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 14:37	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 14:37	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 14:37	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 14:37	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 14:37	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 14:37	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 14:37	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 14:37	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 14:37	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 14:37	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 14:37	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 14:37	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 14:37	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 14:37	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 14:37	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 14:37	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 14:37	1

Client Sample ID: MWB-3(I)b
Date Collected: 02/28/13 14:02
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-15
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*87 - 114*		*03/06/13 14:37*	*1*
Dibromofluoromethane	*95*		*81 - 113*		*03/06/13 14:37*	*1*
Toluene-d8 (Surr)	*106*		*87 - 112*		*03/06/13 14:37*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/10/13 09:15	03/10/13 23:12	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/10/13 09:15	03/10/13 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*113*		*56 - 144*	*03/10/13 09:15*	*03/10/13 23:12*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 06:00	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 06:00	1
Barium	**27**		5.0	1.3	ug/L		03/08/13 12:45	03/10/13 06:00	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 06:00	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 06:00	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 06:00	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 06:00	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 06:00	1
Iron	**810**		100	33	ug/L		03/08/13 12:45	03/10/13 06:00	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 06:00	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 06:00	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 06:00	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 06:00	1
Sodium	**3.7**		0.50	0.25	mg/L		03/08/13 12:45	03/10/13 06:00	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 06:00	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 06:00	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 06:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**	**I**	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 16:14	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.5**		5.0	1.0	mg/L			03/12/13 20:44	5
Ammonia (as N)	**0.045**	**I**	0.050	0.026	mg/L			03/11/13 17:28	1
Nitrate Nitrite as N	**0.011**		0.010	0.0054	mg/L			03/01/13 15:04	1
Nitrate as N	**0.011**		0.010	0.0054	mg/L			03/01/13 16:19	1
Total Dissolved Solids	**12**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/28/13 14:01	1
Field pH	**4.16**				SU			02/28/13 14:01	1
Field Temperature	**21.1**				Degrees C			02/28/13 14:01	1
Oxygen, Dissolved	**0.0**				mg/L			02/28/13 14:01	1
Sheen	**None**				NONE			02/28/13 14:01	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-3(I)b
Date Collected: 02/28/13 14:02
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-15
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	30				umhos/cm			02/28/13 14:01	1
Turbidity	2.61				NTU			02/28/13 14:01	1
Water Level	138.63				ft			02/28/13 14:01	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: Trip Blank 02 42491
Date Collected: 02/28/13 00:00
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-16
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 11:14	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 11:14	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 11:14	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 11:14	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 11:14	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 11:14	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 11:14	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 11:14	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 11:14	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 11:14	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 11:14	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 11:14	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 11:14	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 11:14	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 11:14	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 11:14	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 11:14	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 11:14	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 11:14	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 11:14	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 11:14	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 11:14	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 11:14	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 11:14	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 11:14	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 11:14	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 11:14	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 11:14	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 11:14	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 11:14	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 11:14	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 11:14	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 11:14	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 11:14	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 11:14	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 11:14	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 11:14	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 11:14	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 11:14	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 11:14	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 11:14	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 11:14	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 11:14	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 11:14	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 11:14	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 11:14	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 11:14	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: Trip Blank 02 42491
Date Collected: 02/28/13 00:00
Date Received: 03/01/13 08:00

Lab Sample ID: 640-42491-16
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		87 - 114		03/05/13 11:14	1
Dibromofluoromethane	95		81 - 113		03/05/13 11:14	1
Toluene-d8 (Surr)	100		87 - 112		03/05/13 11:14	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: Field Blank 01
Date Collected: 02/28/13 18:05
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:42	03/09/13 22:05	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:42	03/09/13 22:05	1
Barium	1.3	U	5.0	1.3	ug/L		03/08/13 12:42	03/09/13 22:05	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:42	03/09/13 22:05	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:42	03/09/13 22:05	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:42	03/09/13 22:05	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:42	03/09/13 22:05	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:42	03/09/13 22:05	1
Iron	33	U	100	33	ug/L		03/08/13 12:42	03/09/13 22:05	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:42	03/09/13 22:05	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:42	03/09/13 22:05	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:42	03/09/13 22:05	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:42	03/09/13 22:05	1
Sodium	0.25	U	0.50	0.25	mg/L		03/08/13 12:42	03/09/13 22:05	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:42	03/09/13 22:05	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:42	03/09/13 22:05	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:42	03/09/13 22:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:15	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			03/12/13 23:50	5
Ammonia (as N)	**0.048**	**I**	0.050	0.026	mg/L			03/12/13 15:52	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/07/13 15:46	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/06/13 09:50	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-13(S)c
Date Collected: 02/28/13 17:47
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 14:59	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 14:59	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 14:59	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 14:59	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 14:59	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 14:59	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 14:59	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 14:59	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 14:59	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 14:59	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 14:59	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 14:59	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 14:59	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 14:59	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 14:59	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 14:59	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 14:59	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 14:59	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 14:59	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 14:59	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 14:59	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 14:59	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 14:59	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 14:59	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 14:59	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 14:59	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 14:59	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 14:59	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 14:59	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 14:59	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 14:59	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 14:59	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 14:59	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 14:59	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 14:59	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 14:59	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 14:59	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 14:59	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 14:59	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 14:59	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 14:59	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 14:59	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 14:59	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 14:59	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 14:59	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 14:59	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 14:59	1

Client Sample ID: MWB-13(S)c
Date Collected: 02/28/13 17:47
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*87 - 114*		*03/06/13 14:59*	*1*
Dibromofluoromethane	*90*		*81 - 113*		*03/06/13 14:59*	*1*
Toluene-d8 (Surr)	*107*		*87 - 112*		*03/06/13 14:59*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/13/13 09:36	03/13/13 12:53	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/13/13 09:36	03/13/13 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*118*		*56 - 144*	*03/13/13 09:36*	*03/13/13 12:53*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:42	03/09/13 22:39	1
Arsenic	**1.3**	**I**	2.5	1.3	ug/L		03/08/13 12:42	03/09/13 22:39	1
Barium	**11**		5.0	1.3	ug/L		03/08/13 12:42	03/09/13 22:39	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:42	03/09/13 22:39	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:42	03/09/13 22:39	1
Chromium	**4.5**	**I**	5.0	2.5	ug/L		03/08/13 12:42	03/09/13 22:39	1
Cobalt	**0.17**	**I**	0.50	0.15	ug/L		03/08/13 12:42	03/09/13 22:39	1
Copper	**2.9**	**I**	5.0	1.1	ug/L		03/08/13 12:42	03/09/13 22:39	1
Iron	**1600**		100	33	ug/L		03/08/13 12:42	03/09/13 22:39	1
Lead	**1.6**		1.5	0.20	ug/L		03/08/13 12:42	03/09/13 22:39	1
Nickel	**2.5**	**I**	5.0	2.0	ug/L		03/08/13 12:42	03/09/13 22:39	1
Selenium	**17**		2.5	1.0	ug/L		03/08/13 12:42	03/09/13 22:39	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:42	03/09/13 22:39	1
Sodium	**29**		0.50	0.25	mg/L		03/08/13 12:42	03/09/13 22:39	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:42	03/09/13 22:39	1
Vanadium	**56**		10	3.8	ug/L		03/08/13 12:42	03/09/13 22:39	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:42	03/09/13 22:39	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:18	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32**		5.0	1.0	mg/L			03/13/13 00:03	5
Ammonia (as N)	**0.15**		0.050	0.026	mg/L			03/12/13 15:52	1
Nitrate Nitrite as N	**0.32**		0.010	0.0054	mg/L			03/07/13 15:48	1
Nitrate as N	**0.32**		0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**210**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Brown Tint**				PCU			02/28/13 17:46	1
Field pH	**5.61**				SU			02/28/13 17:46	1
Field Temperature	**17.1**				Degrees C			02/28/13 17:46	1
Oxygen, Dissolved	**0.9**				mg/L			02/28/13 17:46	1
Sheen	**None**				NONE			02/28/13 17:46	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-13(S)c
Date Collected: 02/28/13 17:47
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-2
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	283				umhos/cm			02/28/13 17:46	1
Turbidity	24.34				NTU			02/28/13 17:46	1
Water Level	111.02				ft			02/28/13 17:46	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-11(S)c
Date Collected: 02/28/13 17:20
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 15:20	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 15:20	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 15:20	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 15:20	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 15:20	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 15:20	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 15:20	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 15:20	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 15:20	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 15:20	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 15:20	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 15:20	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 15:20	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 15:20	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 15:20	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 15:20	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 15:20	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 15:20	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 15:20	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 15:20	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 15:20	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 15:20	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 15:20	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 15:20	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 15:20	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 15:20	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 15:20	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 15:20	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 15:20	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 15:20	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 15:20	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 15:20	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 15:20	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 15:20	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 15:20	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 15:20	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 15:20	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 15:20	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 15:20	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 15:20	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 15:20	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 15:20	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 15:20	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 15:20	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 15:20	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 15:20	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 15:20	1

Client Sample ID: MWB-11(S)c
Date Collected: 02/28/13 17:20
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*87 - 114*		*03/06/13 15:20*	*1*
Dibromofluoromethane	*89*		*81 - 113*		*03/06/13 15:20*	*1*
Toluene-d8 (Surr)	*105*		*87 - 112*		*03/06/13 15:20*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/13/13 09:36	03/13/13 13:33	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/13/13 09:36	03/13/13 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*114*		*56 - 144*	*03/13/13 09:36*	*03/13/13 13:33*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:42	03/09/13 22:45	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:42	03/09/13 22:45	1
Barium	**82**		5.0	1.3	ug/L		03/08/13 12:42	03/09/13 22:45	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:42	03/09/13 22:45	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:42	03/09/13 22:45	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:42	03/09/13 22:45	1
Cobalt	**0.42**	**I**	0.50	0.15	ug/L		03/08/13 12:42	03/09/13 22:45	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:42	03/09/13 22:45	1
Iron	**1200**		100	33	ug/L		03/08/13 12:42	03/09/13 22:45	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:42	03/09/13 22:45	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:42	03/09/13 22:45	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:42	03/09/13 22:45	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:42	03/09/13 22:45	1
Sodium	**12**		0.50	0.25	mg/L		03/08/13 12:42	03/09/13 22:45	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:42	03/09/13 22:45	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:42	03/09/13 22:45	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:42	03/09/13 22:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:20	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21**		5.0	1.0	mg/L			03/13/13 00:16	5
Ammonia (as N)	**0.099**		0.050	0.026	mg/L			03/12/13 15:43	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/07/13 15:50	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**78**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/28/13 17:19	1
Field pH	**3.74**				SU			02/28/13 17:19	1
Field Temperature	**21.5**				Degrees C			02/28/13 17:19	1
Oxygen, Dissolved	**0.0**				mg/L			02/28/13 17:19	1
Sheen	**None**				NONE			02/28/13 17:19	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-11(S)c
Date Collected: 02/28/13 17:20
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-3
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	145				umhos/cm			02/28/13 17:19	1
Turbidity	1.89				NTU			02/28/13 17:19	1
Water Level	107.8				ft			02/28/13 17:19	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-11(1)(R)c
Date Collected: 02/28/13 16:46
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 15:42	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 15:42	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 15:42	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 15:42	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 15:42	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 15:42	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 15:42	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 15:42	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 15:42	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 15:42	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 15:42	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 15:42	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 15:42	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 15:42	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 15:42	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 15:42	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 15:42	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 15:42	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 15:42	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 15:42	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 15:42	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 15:42	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 15:42	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 15:42	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 15:42	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 15:42	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 15:42	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 15:42	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 15:42	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 15:42	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 15:42	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 15:42	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 15:42	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 15:42	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 15:42	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 15:42	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 15:42	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 15:42	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 15:42	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 15:42	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 15:42	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 15:42	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 15:42	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 15:42	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 15:42	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 15:42	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 15:42	1

Client Sample ID: MWB-11(1)(R)c
Date Collected: 02/28/13 16:46
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*87 - 114*		*03/06/13 15:42*	*1*
Dibromofluoromethane	*94*		*81 - 113*		*03/06/13 15:42*	*1*
Toluene-d8 (Surr)	*100*		*87 - 112*		*03/06/13 15:42*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/13/13 09:36	03/13/13 13:47	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/13/13 09:36	03/13/13 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*118*		*56 - 144*	*03/13/13 09:36*	*03/13/13 13:47*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:42	03/09/13 22:52	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:42	03/09/13 22:52	1
Barium	**38**		5.0	1.3	ug/L		03/08/13 12:42	03/09/13 22:52	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:42	03/09/13 22:52	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:42	03/09/13 22:52	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:42	03/09/13 22:52	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:42	03/09/13 22:52	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:42	03/09/13 22:52	1
Iron	**350**		100	33	ug/L		03/08/13 12:42	03/09/13 22:52	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:42	03/09/13 22:52	1
Nickel	**2.2**	**I**	5.0	2.0	ug/L		03/08/13 12:42	03/09/13 22:52	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:42	03/09/13 22:52	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:42	03/09/13 22:52	1
Sodium	**2.9**		0.50	0.25	mg/L		03/08/13 12:42	03/09/13 22:52	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:42	03/09/13 22:52	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:42	03/09/13 22:52	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:42	03/09/13 22:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:23	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.8**	**I**	5.0	1.0	mg/L			03/13/13 00:29	5
Ammonia (as N)	**0.047**	**I**	0.050	0.026	mg/L			03/12/13 15:53	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/07/13 15:51	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**20**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Lt Brown Tint**				PCU			02/28/13 16:45	1
Field pH	**4.71**				SU			02/28/13 16:45	1
Field Temperature	**23.6**				Degrees C			02/28/13 16:45	1
Oxygen, Dissolved	**0.0**				mg/L			02/28/13 16:45	1
Sheen	**None**				NONE			02/28/13 16:45	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-11(1)(R)c
Date Collected: 02/28/13 16:46
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-4
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	17				umhos/cm			02/28/13 16:45	1
Turbidity	5.03				NTU			02/28/13 16:45	1
Water Level	109.24				ft			02/28/13 16:45	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-7(S)c
Date Collected: 02/28/13 16:12
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 16:03	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 16:03	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 16:03	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 16:03	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 16:03	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 16:03	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 16:03	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 16:03	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 16:03	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 16:03	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 16:03	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 16:03	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 16:03	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 16:03	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 16:03	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 16:03	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 16:03	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 16:03	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 16:03	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 16:03	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 16:03	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 16:03	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 16:03	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 16:03	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 16:03	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 16:03	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 16:03	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 16:03	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 16:03	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 16:03	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 16:03	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 16:03	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 16:03	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 16:03	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 16:03	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 16:03	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 16:03	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 16:03	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 16:03	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 16:03	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 16:03	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 16:03	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 16:03	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 16:03	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 16:03	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 16:03	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 16:03	1

Client Sample ID: MWB-7(S)c
Date Collected: 02/28/13 16:12
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*87 - 114*		*03/06/13 16:03*	*1*
Dibromofluoromethane	*92*		*81 - 113*		*03/06/13 16:03*	*1*
Toluene-d8 (Surr)	*106*		*87 - 112*		*03/06/13 16:03*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/13/13 09:36	03/13/13 14:00	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/13/13 09:36	03/13/13 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*116*		*56 - 144*	*03/13/13 09:36*	*03/13/13 14:00*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:42	03/09/13 23:12	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:42	03/09/13 23:12	1
Barium	**11**		5.0	1.3	ug/L		03/08/13 12:42	03/09/13 23:12	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:42	03/09/13 23:12	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:42	03/09/13 23:12	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:42	03/09/13 23:12	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:42	03/09/13 23:12	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:42	03/09/13 23:12	1
Iron	**280**		100	33	ug/L		03/08/13 12:42	03/09/13 23:12	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:42	03/09/13 23:12	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:42	03/09/13 23:12	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:42	03/09/13 23:12	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:42	03/09/13 23:12	1
Sodium	**15**		0.50	0.25	mg/L		03/08/13 12:42	03/09/13 23:12	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:42	03/09/13 23:12	1
Vanadium	**4.8**	**I**	10	3.8	ug/L		03/08/13 12:42	03/09/13 23:12	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:42	03/09/13 23:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:25	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17**		5.0	1.0	mg/L			03/13/13 00:43	5
Ammonia (as N)	**0.31**		0.050	0.026	mg/L			03/12/13 15:53	1
Nitrate Nitrite as N	**0.075**		0.010	0.0054	mg/L			03/07/13 15:53	1
Nitrate as N	**0.075**		0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**86**		5.0	5.0	mg/L			03/06/13 09:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Sl Brown Tint**				PCU			02/28/13 16:11	1
Field pH	**4.62**				SU			02/28/13 16:11	1
Field Temperature	**21.6**				Degrees C			02/28/13 16:11	1
Oxygen, Dissolved	**0.0**				mg/L			02/28/13 16:11	1
Sheen	**None**				NONE			02/28/13 16:11	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-7(S)c
Date Collected: 02/28/13 16:12
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-5
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	135				umhos/cm			02/28/13 16:11	1
Turbidity	14.04				NTU			02/28/13 16:11	1
Water Level	115.11				ft			02/28/13 16:11	1

Client Sample ID: MWB-7(1)c
Date Collected: 02/28/13 15:39
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 16:25	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 16:25	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 16:25	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 16:25	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 16:25	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 16:25	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 16:25	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 16:25	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 16:25	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 16:25	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 16:25	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 16:25	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 16:25	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 16:25	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 16:25	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 16:25	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 16:25	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 16:25	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 16:25	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 16:25	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 16:25	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 16:25	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 16:25	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 16:25	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 16:25	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 16:25	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 16:25	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 16:25	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 16:25	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 16:25	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 16:25	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 16:25	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 16:25	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 16:25	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 16:25	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 16:25	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 16:25	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 16:25	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 16:25	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 16:25	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 16:25	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 16:25	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 16:25	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 16:25	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 16:25	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 16:25	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 16:25	1

Client Sample ID: MWB-7(1)c
Date Collected: 02/28/13 15:39
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*87 - 114*		*03/06/13 16:25*	*1*
Dibromofluoromethane	*89*		*81 - 113*		*03/06/13 16:25*	*1*
Toluene-d8 (Surr)	*106*		*87 - 112*		*03/06/13 16:25*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/13/13 09:36	03/13/13 14:13	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/13/13 09:36	03/13/13 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*109*		*56 - 144*	*03/13/13 09:36*	*03/13/13 14:13*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/07/13 17:08	03/09/13 05:40	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/07/13 17:08	03/09/13 05:40	1
Barium	**50**		5.0	1.3	ug/L		03/07/13 17:08	03/09/13 05:40	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/07/13 17:08	03/09/13 05:40	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/07/13 17:08	03/09/13 05:40	1
Chromium	2.5	U	5.0	2.5	ug/L		03/07/13 17:08	03/09/13 05:40	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/07/13 17:08	03/09/13 05:40	1
Copper	1.1	U	5.0	1.1	ug/L		03/07/13 17:08	03/09/13 05:40	1
Iron	**380**		100	33	ug/L		03/07/13 17:08	03/09/13 05:40	1
Lead	0.20	U	1.5	0.20	ug/L		03/07/13 17:08	03/09/13 05:40	1
Nickel	2.0	U	5.0	2.0	ug/L		03/07/13 17:08	03/09/13 05:40	1
Selenium	1.0	U	2.5	1.0	ug/L		03/07/13 17:08	03/09/13 05:40	1
Silver	0.25	U	1.0	0.25	ug/L		03/07/13 17:08	03/09/13 05:40	1
Sodium	**3.3**		0.50	0.25	mg/L		03/07/13 17:08	03/09/13 05:40	1
Thallium	0.50	U	1.0	0.50	ug/L		03/07/13 17:08	03/09/13 05:40	1
Vanadium	3.8	U	10	3.8	ug/L		03/07/13 17:08	03/09/13 05:40	1
Zinc	8.3	U	20	8.3	ug/L		03/07/13 17:08	03/09/13 05:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:27	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.6**	**I**	5.0	1.0	mg/L			03/13/13 01:22	5
Ammonia (as N)	**0.044**	**I**	0.050	0.026	mg/L			03/12/13 15:53	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/07/13 15:58	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**18**		5.0	5.0	mg/L			03/07/13 11:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/28/13 15:38	1
Field pH	**4.76**				SU			02/28/13 15:38	1
Field Temperature	**22.7**				Degrees C			02/28/13 15:38	1
Oxygen, Dissolved	**0.0**				mg/L			02/28/13 15:38	1
Sheen	**None**				NONE			02/28/13 15:38	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-7(1)c
Date Collected: 02/28/13 15:39
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-6
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	31				umhos/cm			02/28/13 15:38	1
Turbidity	2.73				NTU			02/28/13 15:38	1
Water Level	118.19				ft			02/28/13 15:38	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-7(D)c
Date Collected: 02/28/13 15:03
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 16:46	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 16:46	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 16:46	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 16:46	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 16:46	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 16:46	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 16:46	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 16:46	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 16:46	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 16:46	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 16:46	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 16:46	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 16:46	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 16:46	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 16:46	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 16:46	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 16:46	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 16:46	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 16:46	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 16:46	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 16:46	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 16:46	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 16:46	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 16:46	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 16:46	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 16:46	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 16:46	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 16:46	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 16:46	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 16:46	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 16:46	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 16:46	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 16:46	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 16:46	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 16:46	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 16:46	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 16:46	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 16:46	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 16:46	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 16:46	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 16:46	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 16:46	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 16:46	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 16:46	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 16:46	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 16:46	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 16:46	1

Client Sample ID: MWB-7(D)c
Date Collected: 02/28/13 15:03
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*87 - 114*		*03/06/13 16:46*	*1*
Dibromofluoromethane	*89*		*81 - 113*		*03/06/13 16:46*	*1*
Toluene-d8 (Surr)	*107*		*87 - 112*		*03/06/13 16:46*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/13/13 09:36	03/13/13 14:27	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/13/13 09:36	03/13/13 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*116*		*56 - 144*	*03/13/13 09:36*	*03/13/13 14:27*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:42	03/09/13 23:19	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:42	03/09/13 23:19	1
Barium	**89**		5.0	1.3	ug/L		03/08/13 12:42	03/09/13 23:19	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:42	03/09/13 23:19	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:42	03/09/13 23:19	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:42	03/09/13 23:19	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:42	03/09/13 23:19	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:42	03/09/13 23:19	1
Iron	**310**		100	33	ug/L		03/08/13 12:42	03/09/13 23:19	1
Lead	**0.48**	**I**	1.5	0.20	ug/L		03/08/13 12:42	03/09/13 23:19	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:42	03/09/13 23:19	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:42	03/09/13 23:19	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:42	03/09/13 23:19	1
Sodium	**5.0**		0.50	0.25	mg/L		03/08/13 12:42	03/09/13 23:19	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:42	03/09/13 23:19	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:42	03/09/13 23:19	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:42	03/09/13 23:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:30	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.1**	**I**	5.0	1.0	mg/L			03/13/13 01:36	5
Ammonia (as N)	**0.16**		0.050	0.026	mg/L			03/12/13 15:53	1
Nitrate Nitrite as N	**0.0094**	**I**	0.010	0.0054	mg/L			03/07/13 16:00	1
Nitrate as N	**0.0094**	**I**	0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**180**		5.0	5.0	mg/L			03/07/13 11:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			02/28/13 15:02	1
Field pH	**7.51**				SU			02/28/13 15:02	1
Field Temperature	**22.1**				Degrees C			02/28/13 15:02	1
Oxygen, Dissolved	**0.0**				mg/L			02/28/13 15:02	1
Sheen	**None**				NONE			02/28/13 15:02	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-7(D)c
Date Collected: 02/28/13 15:03
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-7
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	325				umhos/cm			02/28/13 15:02	1
Turbidity	1.78				NTU			02/28/13 15:02	1
Water Level	120.24				ft			02/28/13 15:02	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: Field Blank 02
Date Collected: 03/01/13 10:30
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:42	03/09/13 23:25	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:42	03/09/13 23:25	1
Barium	1.3	U	5.0	1.3	ug/L		03/08/13 12:42	03/09/13 23:25	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:42	03/09/13 23:25	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:42	03/09/13 23:25	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:42	03/09/13 23:25	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:42	03/09/13 23:25	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:42	03/09/13 23:25	1
Iron	33	U	100	33	ug/L		03/08/13 12:42	03/09/13 23:25	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:42	03/09/13 23:25	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:42	03/09/13 23:25	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:42	03/09/13 23:25	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:42	03/09/13 23:25	1
Sodium	0.25	U	0.50	0.25	mg/L		03/08/13 12:42	03/09/13 23:25	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:42	03/09/13 23:25	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:42	03/09/13 23:25	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:42	03/09/13 23:25	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:32	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			03/13/13 01:49	5
Ammonia (as N)	**0.034**	**I**	0.050	0.026	mg/L			03/12/13 15:53	1
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/07/13 16:05	1
Nitrate as N	0.0054	U	0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/07/13 11:03	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-33(S)d
Date Collected: 03/01/13 10:05
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 17:08	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 17:08	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 17:08	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 17:08	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 17:08	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 17:08	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 17:08	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 17:08	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 17:08	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 17:08	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 17:08	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 17:08	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 17:08	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 17:08	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 17:08	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 17:08	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 17:08	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:08	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 17:08	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 17:08	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 17:08	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:08	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 17:08	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 17:08	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 17:08	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 17:08	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 17:08	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 17:08	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 17:08	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 17:08	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 17:08	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 17:08	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 17:08	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 17:08	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 17:08	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 17:08	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 17:08	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 17:08	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 17:08	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 17:08	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:08	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 17:08	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 17:08	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 17:08	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 17:08	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 17:08	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 17:08	1

Client Sample ID: MWB-33(S)d
Date Collected: 03/01/13 10:05
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*87 - 114*		*03/06/13 17:08*	*1*
Dibromofluoromethane	*94*		*81 - 113*		*03/06/13 17:08*	*1*
Toluene-d8 (Surr)	*108*		*87 - 112*		*03/06/13 17:08*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/13/13 09:36	03/13/13 14:40	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/13/13 09:36	03/13/13 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*109*		*56 - 144*	*03/13/13 09:36*	*03/13/13 14:40*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:42	03/09/13 23:32	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:42	03/09/13 23:32	1
Barium	**17**		5.0	1.3	ug/L		03/08/13 12:42	03/09/13 23:32	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:42	03/09/13 23:32	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:42	03/09/13 23:32	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:42	03/09/13 23:32	1
Cobalt	**0.18**	**I**	0.50	0.15	ug/L		03/08/13 12:42	03/09/13 23:32	1
Copper	**2.5**	**I**	5.0	1.1	ug/L		03/08/13 12:42	03/09/13 23:32	1
Iron	**230**		100	33	ug/L		03/08/13 12:42	03/09/13 23:32	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:42	03/09/13 23:32	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:42	03/09/13 23:32	1
Selenium	**2.9**		2.5	1.0	ug/L		03/08/13 12:42	03/09/13 23:32	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:42	03/09/13 23:32	1
Sodium	**16**		0.50	0.25	mg/L		03/08/13 12:42	03/09/13 23:32	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:42	03/09/13 23:32	1
Vanadium	**17**		10	3.8	ug/L		03/08/13 12:42	03/09/13 23:32	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:42	03/09/13 23:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:45	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12**		5.0	1.0	mg/L			03/13/13 02:02	5
Ammonia (as N)	**0.59**		0.050	0.026	mg/L			03/12/13 16:00	1
Nitrate Nitrite as N	**1.7**		0.050	0.027	mg/L			03/07/13 16:15	5
Nitrate as N	**1.7**		0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**150**		5.0	5.0	mg/L			03/07/13 11:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Sl Brown Tint**				PCU			03/01/13 10:04	1
Field pH	**5.41**				SU			03/01/13 10:04	1
Field Temperature	**20.8**				Degrees C			03/01/13 10:04	1
Oxygen, Dissolved	**0.2**				mg/L			03/01/13 10:04	1
Sheen	**None**				NONE			03/01/13 10:04	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-33(S)d
Date Collected: 03/01/13 10:05
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-9
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	226				umhos/cm			03/01/13 10:04	1
Turbidity	18.07				NTU			03/01/13 10:04	1
Water Level	115.8				ft			03/01/13 10:04	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-34(S)d
Date Collected: 03/01/13 09:30
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 17:29	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 17:29	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 17:29	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 17:29	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 17:29	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 17:29	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 17:29	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 17:29	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 17:29	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 17:29	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 17:29	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 17:29	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 17:29	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 17:29	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 17:29	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 17:29	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 17:29	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:29	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 17:29	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 17:29	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 17:29	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:29	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 17:29	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 17:29	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 17:29	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 17:29	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 17:29	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 17:29	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 17:29	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 17:29	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 17:29	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 17:29	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 17:29	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 17:29	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 17:29	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 17:29	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 17:29	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 17:29	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 17:29	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 17:29	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:29	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 17:29	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 17:29	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 17:29	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 17:29	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 17:29	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 17:29	1

Client Sample ID: MWB-34(S)d
Date Collected: 03/01/13 09:30
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*87 - 114*		*03/06/13 17:29*	*1*
Dibromofluoromethane	*92*		*81 - 113*		*03/06/13 17:29*	*1*
Toluene-d8 (Surr)	*106*		*87 - 112*		*03/06/13 17:29*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/13/13 09:36	03/13/13 14:54	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/13/13 09:36	03/13/13 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*115*		*56 - 144*	*03/13/13 09:36*	*03/13/13 14:54*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:42	03/09/13 23:39	1
Arsenic	**1.7**	**I**	2.5	1.3	ug/L		03/08/13 12:42	03/09/13 23:39	1
Barium	**4.2**	**I**	5.0	1.3	ug/L		03/08/13 12:42	03/09/13 23:39	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:42	03/09/13 23:39	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:42	03/09/13 23:39	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:42	03/09/13 23:39	1
Cobalt	**0.77**		0.50	0.15	ug/L		03/08/13 12:42	03/09/13 23:39	1
Copper	**21**		5.0	1.1	ug/L		03/08/13 12:42	03/09/13 23:39	1
Iron	**140**		100	33	ug/L		03/08/13 12:42	03/09/13 23:39	1
Lead	**0.78**	**I**	1.5	0.20	ug/L		03/08/13 12:42	03/09/13 23:39	1
Nickel	**6.6**		5.0	2.0	ug/L		03/08/13 12:42	03/09/13 23:39	1
Selenium	**1.0**	**I**	2.5	1.0	ug/L		03/08/13 12:42	03/09/13 23:39	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:42	03/09/13 23:39	1
Sodium	**71**		0.50	0.25	mg/L		03/08/13 12:42	03/09/13 23:39	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:42	03/09/13 23:39	1
Vanadium	**18**		10	3.8	ug/L		03/08/13 12:42	03/09/13 23:39	1
Zinc	**260**		20	8.3	ug/L		03/08/13 12:42	03/09/13 23:39	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:47	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42**		5.0	1.0	mg/L			03/13/13 02:15	5
Ammonia (as N)	**0.73**		0.050	0.026	mg/L			03/12/13 16:00	1
Nitrate Nitrite as N	**0.12**		0.010	0.0054	mg/L			03/07/13 16:16	1
Nitrate as N	**0.12**		0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**570**		17	17	mg/L			03/07/13 14:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Sl Yellow Tint**				PCU			03/01/13 09:29	1
Field pH	**6.23**				SU			03/01/13 09:29	1
Field Temperature	**19.6**				Degrees C			03/01/13 09:29	1
Oxygen, Dissolved	**0.3**				mg/L			03/01/13 09:29	1
Sheen	**None**				NONE			03/01/13 09:29	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-34(S)d
Date Collected: 03/01/13 09:30
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-10
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	791				umhos/cm			03/01/13 09:29	1
Turbidity	3.09				NTU			03/01/13 09:29	1
Water Level	116.62				ft			03/01/13 09:29	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-34(I)d
Date Collected: 03/01/13 08:56
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 17:51	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 17:51	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 17:51	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 17:51	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 17:51	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 17:51	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 17:51	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 17:51	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 17:51	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 17:51	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 17:51	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 17:51	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 17:51	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 17:51	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 17:51	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 17:51	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 17:51	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:51	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 17:51	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 17:51	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 17:51	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:51	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 17:51	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 17:51	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 17:51	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 17:51	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 17:51	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 17:51	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 17:51	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 17:51	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 17:51	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 17:51	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 17:51	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 17:51	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 17:51	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 17:51	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 17:51	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 17:51	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 17:51	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 17:51	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:51	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 17:51	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 17:51	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 17:51	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 17:51	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 17:51	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 17:51	1

Client Sample ID: MWB-34(I)d
Date Collected: 03/01/13 08:56
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-11
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*87 - 114*		*03/06/13 17:51*	*1*
Dibromofluoromethane	*87*		*81 - 113*		*03/06/13 17:51*	*1*
Toluene-d8 (Surr)	*108*		*87 - 112*		*03/06/13 17:51*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/13/13 09:36	03/13/13 15:08	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/13/13 09:36	03/13/13 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*107*		*56 - 144*	*03/13/13 09:36*	*03/13/13 15:08*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:42	03/09/13 23:45	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:42	03/09/13 23:45	1
Barium	**49**		5.0	1.3	ug/L		03/08/13 12:42	03/09/13 23:45	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:42	03/09/13 23:45	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:42	03/09/13 23:45	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:42	03/09/13 23:45	1
Cobalt	**0.17**	**I**	0.50	0.15	ug/L		03/08/13 12:42	03/09/13 23:45	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:42	03/09/13 23:45	1
Iron	**620**		100	33	ug/L		03/08/13 12:42	03/09/13 23:45	1
Lead	**0.96**	**I**	1.5	0.20	ug/L		03/08/13 12:42	03/09/13 23:45	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:42	03/09/13 23:45	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:42	03/09/13 23:45	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:42	03/09/13 23:45	1
Sodium	**3.5**		0.50	0.25	mg/L		03/08/13 12:42	03/09/13 23:45	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:42	03/09/13 23:45	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:42	03/09/13 23:45	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:42	03/09/13 23:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.5**	**I**	5.0	1.0	mg/L			03/13/13 02:29	5
Ammonia (as N)	**0.094**		0.050	0.026	mg/L			03/12/13 16:00	1
Nitrate Nitrite as N	**0.0081**	**I**	0.010	0.0054	mg/L			03/07/13 16:18	1
Nitrate as N	**0.0081**	**I**	0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**22**		5.0	5.0	mg/L			03/07/13 14:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			03/01/13 08:55	1
Field pH	**5.18**				SU			03/01/13 08:55	1
Field Temperature	**22.9**				Degrees C			03/01/13 08:55	1
Oxygen, Dissolved	**0.1**				mg/L			03/01/13 08:55	1
Sheen	**None**				NONE			03/01/13 08:55	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-34(I)d
Date Collected: 03/01/13 08:56
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-11
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	22				umhos/cm			03/01/13 08:55	1
Turbidity	4.2				NTU			03/01/13 08:55	1
Water Level	117.65				ft			03/01/13 08:55	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-34(D)d
Date Collected: 03/01/13 08:19
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 18:12	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 18:12	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 18:12	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 18:12	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 18:12	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 18:12	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 18:12	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 18:12	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 18:12	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 18:12	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 18:12	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 18:12	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 18:12	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 18:12	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 18:12	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 18:12	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 18:12	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 18:12	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 18:12	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 18:12	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 18:12	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 18:12	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 18:12	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 18:12	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 18:12	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 18:12	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 18:12	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 18:12	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 18:12	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 18:12	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 18:12	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 18:12	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 18:12	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 18:12	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 18:12	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 18:12	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 18:12	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 18:12	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 18:12	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 18:12	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 18:12	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 18:12	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 18:12	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 18:12	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 18:12	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 18:12	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 18:12	1

Client Sample ID: MWB-34(D)d

Date Collected: 03/01/13 08:19
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-12

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*87 - 114*		*03/06/13 18:12*	*1*
Dibromofluoromethane	*92*		*81 - 113*		*03/06/13 18:12*	*1*
Toluene-d8 (Surr)	*101*		*87 - 112*		*03/06/13 18:12*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/13/13 09:36	03/13/13 15:21	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/13/13 09:36	03/13/13 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*112*		*56 - 144*	*03/13/13 09:36*	*03/13/13 15:21*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:42	03/09/13 23:52	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:42	03/09/13 23:52	1
Barium	**110**		5.0	1.3	ug/L		03/08/13 12:42	03/09/13 23:52	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:42	03/09/13 23:52	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:42	03/09/13 23:52	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:42	03/09/13 23:52	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:42	03/09/13 23:52	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:42	03/09/13 23:52	1
Iron	**490**		100	33	ug/L		03/08/13 12:42	03/09/13 23:52	1
Lead	**0.70**	**I**	1.5	0.20	ug/L		03/08/13 12:42	03/09/13 23:52	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:42	03/09/13 23:52	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:42	03/09/13 23:52	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:42	03/09/13 23:52	1
Sodium	**6.4**		0.50	0.25	mg/L		03/08/13 12:42	03/09/13 23:52	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:42	03/09/13 23:52	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:42	03/09/13 23:52	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:42	03/09/13 23:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:52	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.7**	**I**	5.0	1.0	mg/L			03/13/13 02:42	5
Ammonia (as N)	**0.21**		0.050	0.026	mg/L			03/12/13 15:43	1
Nitrate Nitrite as N	**0.046**		0.010	0.0054	mg/L			03/07/13 16:20	1
Nitrate as N	**0.046**		0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**170**		10	10	mg/L			03/07/13 14:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**None**				PCU			03/01/13 08:18	1
Field pH	**7.13**				SU			03/01/13 08:18	1
Field Temperature	**22.7**				Degrees C			03/01/13 08:18	1
Oxygen, Dissolved	**0.2**				mg/L			03/01/13 08:18	1
Sheen	**None**				NONE			03/01/13 08:18	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-34(D)d
Date Collected: 03/01/13 08:19
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-12
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	390				umhos/cm			03/01/13 08:18	1
Turbidity	1.23				NTU			03/01/13 08:18	1
Water Level	117.59				ft			03/01/13 08:18	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-32(S)d
Date Collected: 03/01/13 11:00
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 18:34	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 18:34	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 18:34	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 18:34	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 18:34	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 18:34	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 18:34	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 18:34	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 18:34	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 18:34	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 18:34	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 18:34	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 18:34	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 18:34	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 18:34	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 18:34	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 18:34	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 18:34	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 18:34	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 18:34	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 18:34	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 18:34	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 18:34	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 18:34	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 18:34	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 18:34	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 18:34	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 18:34	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 18:34	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 18:34	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 18:34	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 18:34	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 18:34	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 18:34	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 18:34	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 18:34	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 18:34	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 18:34	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 18:34	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 18:34	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 18:34	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 18:34	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 18:34	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 18:34	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 18:34	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 18:34	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 18:34	1

Client Sample ID: MWB-32(S)d
Date Collected: 03/01/13 11:00
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*87 - 114*		*03/06/13 18:34*	*1*
Dibromofluoromethane	*90*		*81 - 113*		*03/06/13 18:34*	*1*
Toluene-d8 (Surr)	*103*		*87 - 112*		*03/06/13 18:34*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/13/13 09:36	03/13/13 15:34	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/13/13 09:36	03/13/13 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*118*		*56 - 144*	*03/13/13 09:36*	*03/13/13 15:34*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:42	03/09/13 23:59	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:42	03/09/13 23:59	1
Barium	**49**		5.0	1.3	ug/L		03/08/13 12:42	03/09/13 23:59	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:42	03/09/13 23:59	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:42	03/09/13 23:59	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:42	03/09/13 23:59	1
Cobalt	**0.52**		0.50	0.15	ug/L		03/08/13 12:42	03/09/13 23:59	1
Copper	**1.4**	**I**	5.0	1.1	ug/L		03/08/13 12:42	03/09/13 23:59	1
Iron	**910**		100	33	ug/L		03/08/13 12:42	03/09/13 23:59	1
Lead	**0.65**	**I**	1.5	0.20	ug/L		03/08/13 12:42	03/09/13 23:59	1
Nickel	**2.4**	**I**	5.0	2.0	ug/L		03/08/13 12:42	03/09/13 23:59	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:42	03/09/13 23:59	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:42	03/09/13 23:59	1
Sodium	**24**		0.50	0.25	mg/L		03/08/13 12:42	03/09/13 23:59	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:42	03/09/13 23:59	1
Vanadium	**4.6**	**I**	10	3.8	ug/L		03/08/13 12:42	03/09/13 23:59	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:42	03/09/13 23:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:55	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39**		5.0	1.0	mg/L			03/13/13 02:55	5
Ammonia (as N)	**0.65**		0.050	0.026	mg/L			03/12/13 15:43	1
Nitrate Nitrite as N	**0.010**		0.010	0.0054	mg/L			03/07/13 16:21	1
Nitrate as N	**0.010**		0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**120**		5.0	5.0	mg/L			03/07/13 14:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Brown Tint**				PCU			03/01/13 10:59	1
Field pH	**4.88**				SU			03/01/13 10:59	1
Field Temperature	**21.1**				Degrees C			03/01/13 10:59	1
Oxygen, Dissolved	**0.4**				mg/L			03/01/13 10:59	1
Sheen	**None**				NONE			03/01/13 10:59	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-32(S)d
Date Collected: 03/01/13 11:00
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-13
Matrix: Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	235				umhos/cm			03/01/13 10:59	1
Turbidity	17.43				NTU			03/01/13 10:59	1
Water Level	116.43				ft			03/01/13 10:59	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: Trip Blank 03 42516
Date Collected: 02/28/13 00:00
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 13:32	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 13:32	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 13:32	1
Bromoform	0.18	J U	1.0	0.18	ug/L			03/06/13 13:32	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 13:32	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 13:32	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 13:32	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 13:32	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 13:32	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 13:32	1
Chlorodibromomethane	0.15	J U	1.0	0.15	ug/L			03/06/13 13:32	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 13:32	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 13:32	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 13:32	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 13:32	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 13:32	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 13:32	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 13:32	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 13:32	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 13:32	1
Dichlorobromomethane	0.17	J U	1.0	0.17	ug/L			03/06/13 13:32	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 13:32	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 13:32	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 13:32	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 13:32	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 13:32	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 13:32	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 13:32	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 13:32	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 13:32	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 13:32	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 13:32	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 13:32	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 13:32	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 13:32	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 13:32	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 13:32	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 13:32	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 13:32	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 13:32	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 13:32	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 13:32	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 13:32	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 13:32	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 13:32	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 13:32	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 13:32	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: Trip Blank 03 42516
Date Collected: 02/28/13 00:00
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42516-14
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		87 - 114		03/06/13 13:32	1
Dibromofluoromethane	90		81 - 113		03/06/13 13:32	1
Toluene-d8 (Surr)	106		87 - 112		03/06/13 13:32	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: SW-1
Date Collected: 03/01/13 12:30
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42517-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 17:32	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 17:32	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 17:32	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/06/13 17:32	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 17:32	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 17:32	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 17:32	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 17:32	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 17:32	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 17:32	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/06/13 17:32	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 17:32	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 17:32	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 17:32	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 17:32	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 17:32	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 17:32	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:32	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 17:32	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 17:32	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/06/13 17:32	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:32	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 17:32	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 17:32	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 17:32	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 17:32	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 17:32	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 17:32	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 17:32	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 17:32	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 17:32	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 17:32	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 17:32	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 17:32	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 17:32	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 17:32	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 17:32	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 17:32	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 17:32	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 17:32	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:32	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 17:32	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 17:32	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 17:32	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 17:32	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 17:32	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 17:32	1

Client Sample ID: SW-1

Date Collected: 03/01/13 12:30
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42517-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*87 - 114*		*03/06/13 17:32*	*1*
Dibromofluoromethane	*101*		*81 - 113*		*03/06/13 17:32*	*1*
Toluene-d8 (Surr)	*98*		*87 - 112*		*03/06/13 17:32*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0057	U	0.019	0.0057	ug/L		03/13/13 09:36	03/13/13 15:48	1
EDB	0.0061	U	0.019	0.0061	ug/L		03/13/13 09:36	03/13/13 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*108*		*56 - 144*	*03/13/13 09:36*	*03/13/13 15:48*	*1*

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00040**	**I V**	0.00050	0.00020	ug/L		03/05/13 16:30	03/08/13 11:17	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/07/13 17:08	03/09/13 05:47	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/07/13 17:08	03/09/13 05:47	1
Barium	**55**		5.0	1.3	ug/L		03/07/13 17:08	03/09/13 05:47	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/07/13 17:08	03/09/13 05:47	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/07/13 17:08	03/09/13 05:47	1
Chromium	2.5	U	5.0	2.5	ug/L		03/07/13 17:08	03/09/13 05:47	1
Cobalt	**0.51**		0.50	0.15	ug/L		03/07/13 17:08	03/09/13 05:47	1
Copper	**1.5**	**I**	5.0	1.1	ug/L		03/07/13 17:08	03/09/13 05:47	1
Iron	**1000**		100	33	ug/L		03/07/13 17:08	03/09/13 05:47	1
Lead	**2.1**		1.5	0.20	ug/L		03/07/13 17:08	03/09/13 05:47	1
Nickel	2.0	U	5.0	2.0	ug/L		03/07/13 17:08	03/09/13 05:47	1
Selenium	1.0	U	2.5	1.0	ug/L		03/07/13 17:08	03/09/13 05:47	1
Silver	0.25	U	1.0	0.25	ug/L		03/07/13 17:08	03/09/13 05:47	1
Thallium	0.50	U	1.0	0.50	ug/L		03/07/13 17:08	03/09/13 05:47	1
Vanadium	**5.2**	**I**	10	3.8	ug/L		03/07/13 17:08	03/09/13 05:47	1
Zinc	**18**	**I**	20	8.3	ug/L		03/07/13 17:08	03/09/13 05:47	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**26**		3.3	3.3	mg/L			03/09/13 05:47	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	**0.081**		0.010	0.0054	mg/L			03/07/13 16:26	1
Phosphorus	**0.045**	**I**	0.10	0.041	mg/L		03/07/13 18:00	03/08/13 12:12	1
Orthophosphate as P	**0.0045**	**I**	0.010	0.0014	mg/L			03/02/13 23:35	1
Nitrate as N	**0.081**		0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**160**		5.0	5.0	mg/L			03/07/13 14:19	1
Total Suspended Solids	**1.6**		1.0	1.0	mg/L			03/06/13 06:07	1
Biochemical Oxygen Demand	6.0	U	6.0	6.0	mg/L			03/02/13 12:40	1
Chemical Oxygen Demand	**150**		20	6.3	mg/L			03/12/13 11:43	1
Total Organic Carbon	**57**		5.0	1.8	mg/L			03/05/13 18:43	5
Nitrogen, Total	**1.3**		0.25	0.25	mg/L			03/13/13 09:28	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: SW-1
Date Collected: 03/01/13 12:30
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42517-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Unionized Ammonia	0.00028	U	0.00028	0.00028	mg/L			03/14/13 11:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Yellow Tint				PCU			03/01/13 12:30	1
Field pH	4.83				SU			03/01/13 12:30	1
Field Temperature	14.7				Degrees C			03/01/13 12:30	1
Oxygen, Dissolved	5.0				mg/L			03/01/13 12:30	1
Sheen	None				NONE			03/01/13 12:30	1
Specific Conductance	99				umhos/cm			03/01/13 12:30	1
Turbidity	8.56				NTU			03/01/13 12:30	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: SW-2
Date Collected: 03/01/13 11:40
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42517-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 17:08	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 17:08	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 17:08	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/06/13 17:08	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 17:08	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 17:08	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 17:08	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 17:08	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 17:08	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 17:08	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/06/13 17:08	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 17:08	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 17:08	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 17:08	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 17:08	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 17:08	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 17:08	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:08	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 17:08	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 17:08	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/06/13 17:08	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:08	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 17:08	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 17:08	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 17:08	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 17:08	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 17:08	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 17:08	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 17:08	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 17:08	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 17:08	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 17:08	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 17:08	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 17:08	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 17:08	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 17:08	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 17:08	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 17:08	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 17:08	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 17:08	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 17:08	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 17:08	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 17:08	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 17:08	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 17:08	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 17:08	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 17:08	1

Client Sample ID: SW-2

Date Collected: 03/01/13 11:40
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42517-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*87 - 114*		*03/06/13 17:08*	*1*
Dibromofluoromethane	*98*		*81 - 113*		*03/06/13 17:08*	*1*
Toluene-d8 (Surr)	*101*		*87 - 112*		*03/06/13 17:08*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0056	U	0.019	0.0056	ug/L		03/13/13 09:36	03/13/13 16:01	1
EDB	0.0060	U	0.019	0.0060	ug/L		03/13/13 09:36	03/13/13 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*104*		*56 - 144*	*03/13/13 09:36*	*03/13/13 16:01*	*1*

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00050	0.00020	ug/L		03/05/13 16:30	03/08/13 11:25	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/07/13 17:08	03/09/13 05:53	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/07/13 17:08	03/09/13 05:53	1
Barium	**110**		5.0	1.3	ug/L		03/07/13 17:08	03/09/13 05:53	1
Beryllium	**0.78**		0.50	0.25	ug/L		03/07/13 17:08	03/09/13 05:53	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/07/13 17:08	03/09/13 05:53	1
Chromium	2.5	U	5.0	2.5	ug/L		03/07/13 17:08	03/09/13 05:53	1
Cobalt	**0.17**	**I**	0.50	0.15	ug/L		03/07/13 17:08	03/09/13 05:53	1
Copper	1.1	U	5.0	1.1	ug/L		03/07/13 17:08	03/09/13 05:53	1
Iron	**530**		100	33	ug/L		03/07/13 17:08	03/09/13 05:53	1
Lead	0.20	U	1.5	0.20	ug/L		03/07/13 17:08	03/09/13 05:53	1
Nickel	2.0	U	5.0	2.0	ug/L		03/07/13 17:08	03/09/13 05:53	1
Selenium	1.0	U	2.5	1.0	ug/L		03/07/13 17:08	03/09/13 05:53	1
Silver	0.25	U	1.0	0.25	ug/L		03/07/13 17:08	03/09/13 05:53	1
Thallium	0.50	U	1.0	0.50	ug/L		03/07/13 17:08	03/09/13 05:53	1
Vanadium	**5.7**	**I**	10	3.8	ug/L		03/07/13 17:08	03/09/13 05:53	1
Zinc	8.3	U	20	8.3	ug/L		03/07/13 17:08	03/09/13 05:53	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**12**		3.3	3.3	mg/L			03/09/13 05:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	**0.51**		0.010	0.0054	mg/L			03/07/13 16:28	1
Phosphorus	0.041	U	0.10	0.041	mg/L		03/07/13 18:00	03/08/13 12:13	1
Orthophosphate as P	**0.0065**	**I**	0.010	0.0014	mg/L			03/02/13 23:43	1
Nitrate as N	**0.51**		0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**54**		5.0	5.0	mg/L			03/07/13 14:19	1
Total Suspended Solids	**6.4**		1.0	1.0	mg/L			03/06/13 06:07	1
Biochemical Oxygen Demand	6.0	U	6.0	6.0	mg/L			03/02/13 12:40	1
Chemical Oxygen Demand	**46**		20	6.3	mg/L			03/12/13 11:43	1
Total Organic Carbon	**19**		1.0	0.35	mg/L			03/05/13 18:59	1
Nitrogen, Total	**1.1**		0.25	0.25	mg/L			03/13/13 09:28	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: SW-2
Date Collected: 03/01/13 11:40
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42517-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Unionized Ammonia	0.00028	U	0.00028	0.00028	mg/L			03/14/13 11:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**Yellow Tint**				PCU			03/01/13 11:40	1
Field pH	**4.14**				SU			03/01/13 11:40	1
Field Temperature	**17.0**				Degrees C			03/01/13 11:40	1
Oxygen, Dissolved	**6.2**				mg/L			03/01/13 11:40	1
Sheen	**None**				NONE			03/01/13 11:40	1
Specific Conductance	**64**				umhos/cm			03/01/13 11:40	1
Turbidity	**9.77**				NTU			03/01/13 11:40	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: SW-3
Date Collected: 03/01/13 12:05
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42517-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 16:44	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 16:44	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 16:44	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/06/13 16:44	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 16:44	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 16:44	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 16:44	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 16:44	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 16:44	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 16:44	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/06/13 16:44	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 16:44	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 16:44	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 16:44	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 16:44	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 16:44	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 16:44	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 16:44	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 16:44	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 16:44	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/06/13 16:44	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 16:44	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 16:44	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 16:44	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 16:44	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 16:44	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 16:44	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 16:44	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 16:44	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 16:44	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 16:44	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 16:44	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 16:44	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 16:44	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 16:44	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 16:44	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 16:44	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 16:44	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 16:44	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 16:44	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 16:44	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 16:44	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 16:44	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 16:44	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 16:44	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 16:44	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 16:44	1

Client Sample ID: SW-3
Date Collected: 03/01/13 12:05
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42517-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*87 - 114*		*03/06/13 16:44*	*1*
Dibromofluoromethane	*100*		*81 - 113*		*03/06/13 16:44*	*1*
Toluene-d8 (Surr)	*99*		*87 - 112*		*03/06/13 16:44*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0056	U	0.019	0.0056	ug/L		03/13/13 09:36	03/13/13 16:14	1
EDB	0.0060	U	0.019	0.0060	ug/L		03/13/13 09:36	03/13/13 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*108*		*56 - 144*	*03/13/13 09:36*	*03/13/13 16:14*	*1*

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0074**	**V**	0.0025	0.0010	ug/L		03/05/13 16:30	03/08/13 11:33	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.7**	**I**	5.0	2.3	ug/L		03/07/13 17:08	03/09/13 06:13	1
Arsenic	**2.6**		2.5	1.3	ug/L		03/07/13 17:08	03/09/13 06:13	1
Barium	**71**		5.0	1.3	ug/L		03/07/13 17:08	03/09/13 06:13	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/07/13 17:08	03/09/13 06:13	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/07/13 17:08	03/09/13 06:13	1
Chromium	**12**		5.0	2.5	ug/L		03/07/13 17:08	03/09/13 06:13	1
Cobalt	**0.63**		0.50	0.15	ug/L		03/07/13 17:08	03/09/13 06:13	1
Copper	**9.9**		5.0	1.1	ug/L		03/07/13 17:08	03/09/13 06:13	1
Iron	**2500**		100	33	ug/L		03/07/13 17:08	03/09/13 06:13	1
Lead	**33**		1.5	0.20	ug/L		03/07/13 17:08	03/09/13 06:13	1
Nickel	**5.9**		5.0	2.0	ug/L		03/07/13 17:08	03/09/13 06:13	1
Selenium	**1.5**	**I**	2.5	1.0	ug/L		03/07/13 17:08	03/09/13 06:13	1
Silver	0.25	U	1.0	0.25	ug/L		03/07/13 17:08	03/09/13 06:13	1
Thallium	0.50	U	1.0	0.50	ug/L		03/07/13 17:08	03/09/13 06:13	1
Vanadium	**16**		10	3.8	ug/L		03/07/13 17:08	03/09/13 06:13	1
Zinc	**43**		20	8.3	ug/L		03/07/13 17:08	03/09/13 06:13	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**130**		3.3	3.3	mg/L			03/09/13 06:13	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	**1.3**		0.050	0.027	mg/L			03/07/13 16:30	5
Phosphorus	**0.20**		0.10	0.041	mg/L		03/07/13 18:00	03/08/13 12:14	1
Orthophosphate as P	**0.069**		0.010	0.0014	mg/L			03/02/13 23:45	1
Nitrate as N	**1.3**		0.010	0.0054	mg/L			03/12/13 18:24	1
Total Dissolved Solids	**350**		5.0	5.0	mg/L			03/07/13 14:19	1
Total Suspended Solids	**45**		1.0	1.0	mg/L			03/06/13 06:07	1
Biochemical Oxygen Demand	6.0	U	6.0	6.0	mg/L			03/02/13 12:40	1
Chemical Oxygen Demand	**48**		20	6.3	mg/L			03/12/13 11:43	1
Total Organic Carbon	**15**		4.0	1.4	mg/L			03/05/13 19:11	4
Nitrogen, Total	**3.4**		0.25	0.25	mg/L			03/13/13 09:28	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: SW-3
Date Collected: 03/01/13 12:05
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42517-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Unionized Ammonia	0.0061		0.00028	0.00028	mg/L			03/14/13 11:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Lt Tan				PCU			03/01/13 12:05	1
Field pH	7.28				SU			03/01/13 12:05	1
Field Temperature	17.4				Degrees C			03/01/13 12:05	1
Oxygen, Dissolved	5.6				mg/L			03/01/13 12:05	1
Sheen	None				NONE			03/01/13 12:05	1
Specific Conductance	264				umhos/cm			03/01/13 12:05	1
Turbidity	156.3				NTU			03/01/13 12:05	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: Trip Blank 04 42517
Date Collected: 03/01/13 00:00
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42517-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 15:56	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 15:56	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 15:56	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/06/13 15:56	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 15:56	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 15:56	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 15:56	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 15:56	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 15:56	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 15:56	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/06/13 15:56	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 15:56	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 15:56	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 15:56	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 15:56	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 15:56	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 15:56	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 15:56	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 15:56	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 15:56	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/06/13 15:56	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 15:56	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 15:56	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 15:56	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 15:56	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 15:56	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 15:56	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 15:56	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 15:56	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 15:56	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 15:56	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 15:56	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 15:56	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 15:56	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 15:56	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 15:56	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 15:56	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 15:56	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 15:56	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 15:56	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 15:56	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 15:56	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 15:56	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 15:56	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 15:56	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 15:56	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 15:56	1

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: Trip Blank 04 42517
Date Collected: 03/01/13 00:00
Date Received: 03/02/13 16:30

Lab Sample ID: 640-42517-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		87 - 114		03/06/13 15:56	1
Dibromofluoromethane	97		81 - 113		03/06/13 15:56	1
Toluene-d8 (Surr)	97		87 - 112		03/06/13 15:56	1

Surrogate Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
		BFB	DBFM	TOL						
Lab Sample ID	Client Sample ID	(87-114)	(81-113)	(87-112)						
640-42469-1	MWB-17(I)c	96	98	99						
640-42469-1 MS	MWB-17(I)c	104	100	97						
640-42469-1 MSD	MWB-17(I)c	102	100	98						
640-42469-2	MWB-17(D)c	95	100	99						
640-42469-3	MWB-19(S)c	94	101	100						
640-42469-4	MWB-19(I)c	98	98	95						
640-42469-5	MWB-19(D)c	94	98	97						
640-42469-6	MWB-17(S)c	99	96	95						
640-42469-7	MWB-13(I)c	99	99	98						
640-42469-8	MWB-22(S)c	99	99	95						
640-42469-9	MWB-12(S)c	97	98	97						
640-42469-10	MWB-12(1)c	101	101	95						
640-42469-11	MWB-12(D)c	99	95	97						
640-42469-12	Trip Blank 01 42469	95	101	99						
640-42491-1	MWB-20(S)c	95	91	102						
640-42491-2	MWB-21(S)c	95	90	105						
640-42491-3	MWB-32(D)d	101	89	102						
640-42491-4	MWB-32(I)d	103	90	105						
640-42491-5	MWB-29(S)c	98	90	101						
640-42491-6	MWB-29(I)c	97	91	102						
640-42491-7	MWB-29(D)c	101	91	102						
640-42491-8	MWB-27(S)c	100	91	104						
640-42491-9	MWB-27(I)c	95	90	101						
640-42491-10	MWB-27(D)c	95	95	103						
640-42491-11	MWB-2(I)b	100	90	101						
640-42491-12	MWB-3(S)b	99	90	105						
640-42491-12 MS	MWB-3(S)b	99	96	105						
640-42491-12 MSD	MWB-3(S)b	101	92	105						
640-42491-13	MWB-31(D)b	98	94	103						
640-42491-14	MWB-2(S)b	98	92	104						
640-42491-15	MWB-3(I)b	102	95	106						
640-42491-15 MS	MWB-3(I)b	98	93	105						
640-42491-15 MSD	MWB-3(I)b	103	90	103						
640-42491-16	Trip Blank 02 42491	98	95	100						
640-42516-2	MWB-13(S)c	100	90	107						
640-42516-3	MWB-11(S)c	97	89	105						
640-42516-4	MWB-11(1)(R)c	96	94	100						
640-42516-5	MWB-7(S)c	98	92	106						
640-42516-6	MWB-7(1)c	99	89	106						
640-42516-7	MWB-7(D)c	97	89	107						
640-42516-9	MWB-33(S)d	96	94	108						
640-42516-10	MWB-34(S)d	98	92	106						
640-42516-11	MWB-34(I)d	98	87	108						
640-42516-12	MWB-34(D)d	100	92	101						
640-42516-13	MWB-32(S)d	97	90	103						
640-42516-14	Trip Blank 03 42516	94	90	106						
640-42517-1	SW-1	95	101	98						
640-42517-2	SW-2	96	98	101						
640-42517-3	SW-3	96	100	99						

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(87-114)	(81-113)	(87-112)
640-42517-4	Trip Blank 04 42517	94	97	97
LCS 640-100048/2	Lab Control Sample	104	101	103
LCS 640-99896/8	Lab Control Sample	103	96	100
LCS 640-99918/19	Lab Control Sample	103	101	102
LCS 640-99930/2	Lab Control Sample	99	92	108
LCSD 640-100048/3	Lab Control Sample Dup	99	101	102
LCSD 640-99896/3	Lab Control Sample Dup	100	97	101
LCSD 640-99918/4	Lab Control Sample Dup	100	101	101
LCSD 640-99930/4	Lab Control Sample Dup	99	93	106
MB 640-100048/4	Method Blank	95	100	97
MB 640-99896/4	Method Blank	99	92	103
MB 640-99918/5	Method Blank	97	102	100
MB 640-99930/6	Method Blank	98	93	103

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TCEA1
Lab Sample ID	Client Sample ID	(56-144)
640-42469-1	MWB-17(I)c	107
640-42469-2	MWB-17(D)c	114
640-42469-3	MWB-19(S)c	116
640-42469-4	MWB-19(I)c	114
640-42469-5	MWB-19(D)c	117
640-42469-6	MWB-17(S)c	112
640-42469-7	MWB-13(I)c	123
640-42469-8	MWB-22(S)c	122
640-42469-9	MWB-12(S)c	123
640-42469-10	MWB-12(1)c	112
640-42469-11	MWB-12(D)c	111
640-42516-2	MWB-13(S)c	118
640-42516-2 MS	MWB-13(S)c	111
640-42516-2 MSD	MWB-13(S)c	113
640-42516-3	MWB-11(S)c	114
640-42516-4	MWB-11(1)(R)c	118
640-42516-5	MWB-7(S)c	116
640-42516-6	MWB-7(1)c	109
640-42516-7	MWB-7(D)c	116
640-42516-9	MWB-33(S)d	109
640-42516-10	MWB-34(S)d	115
640-42516-11	MWB-34(I)d	107
640-42516-12	MWB-34(D)d	112
640-42516-13	MWB-32(S)d	118

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TCEA1
Lab Sample ID	Client Sample ID	(56-144)
640-42517-1	SW-1	108
640-42517-2	SW-2	104
640-42517-3	SW-3	108
LCS 640-100116/4-A	Lab Control Sample	110
LCS 640-99808/11-A	Lab Control Sample	97
LCSD 640-100116/5-A	Lab Control Sample Dup	113
LCSD 640-99808/12-A	Lab Control Sample Dup	91
MB 640-100116/3-A	Method Blank	129
MB 640-99808/10-A	Method Blank	93
MB 640-99982/3-A	Method Blank	113

Surrogate Legend

TCEA = 1,1,1,2-Tetrachloroethane

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TCEA2
Lab Sample ID	Client Sample ID	(56-144)
640-42491-1	MWB-20(S)c	142
640-42491-2	MWB-21(S)c	131
640-42491-3	MWB-32(D)d	130
640-42491-4	MWB-32(I)d	135
640-42491-5	MWB-29(S)c	138
640-42491-6	MWB-29(I)c	135
640-42491-7	MWB-29(D)c	127
640-42491-8	MWB-27(S)c	106
640-42491-9	MWB-27(I)c	108
640-42491-10	MWB-27(D)c	112
640-42491-11	MWB-2(I)b	112
640-42491-12	MWB-3(S)b	110
640-42491-13	MWB-31(D)b	113
640-42491-14	MWB-2(S)b	105
640-42491-15	MWB-3(I)b	113
LCS 640-100022/11-A	Lab Control Sample	94
LCS 640-99982/4-A	Lab Control Sample	133
LCSD 640-100022/12-A	Lab Control Sample Dup	109
LCSD 640-99982/5-A	Lab Control Sample Dup	120

Surrogate Legend

TCEA = 1,1,1,2-Tetrachloroethane

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TCEA1
Lab Sample ID	Client Sample ID	
MB 640-100022/10-A	Method Blank	

Surrogate Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Surrogate Legend

TCEA = 1,1,1,2-Tetrachloroethane

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 640-100048/4
Matrix: Water
Analysis Batch: 100048

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 15:32	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 15:32	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 15:32	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/06/13 15:32	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 15:32	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 15:32	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 15:32	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 15:32	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 15:32	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 15:32	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/06/13 15:32	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 15:32	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 15:32	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 15:32	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 15:32	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 15:32	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 15:32	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 15:32	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 15:32	1
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 15:32	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/06/13 15:32	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 15:32	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 15:32	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 15:32	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 15:32	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 15:32	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 15:32	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 15:32	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 15:32	1
Methylene Chloride	0.428	I	5.0	0.21	ug/L			03/06/13 15:32	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 15:32	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 15:32	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 15:32	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 15:32	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 15:32	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 15:32	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 15:32	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 15:32	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 15:32	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 15:32	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 15:32	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 15:32	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 15:32	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 15:32	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 15:32	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 15:32	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 15:32	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 640-100048/4
Matrix: Water
Analysis Batch: 100048

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		87 - 114		03/06/13 15:32	1
Dibromofluoromethane	100		81 - 113		03/06/13 15:32	1
Toluene-d8 (Surr)	97		87 - 112		03/06/13 15:32	1

Lab Sample ID: LCS 640-100048/2
Matrix: Water
Analysis Batch: 100048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	231		ug/L		116	64 - 132
Acrylonitrile	400	416		ug/L		104	72 - 124
Benzene	20.0	19.6		ug/L		98	80 - 120
Bromoform	20.0	17.9		ug/L		90	64 - 132
Bromomethane	20.0	14.6		ug/L		73	37 - 146
2-Butanone (MEK)	200	212		ug/L		106	66 - 132
Carbon disulfide	20.0	18.0		ug/L		90	72 - 132
Carbon tetrachloride	20.0	19.2		ug/L		96	79 - 126
Chlorobenzene	20.0	19.0		ug/L		95	82 - 116
Chlorobromomethane	20.0	19.0		ug/L		95	72 - 124
Chlorodibromomethane	20.0	18.4		ug/L		92	73 - 125
Chloroethane	20.0	22.9		ug/L		114	47 - 160
Chloroform	20.0	18.9		ug/L		95	81 - 120
Chloromethane	20.0	18.0		ug/L		90	61 - 136
cis-1,2-Dichloroethene	20.0	18.6		ug/L		93	75 - 128
cis-1,3-Dichloropropene	20.0	18.5		ug/L		92	79 - 120
1,2-Dibromo-3-Chloropropane	20.0	21.0		ug/L		105	57 - 128
Dibromomethane	20.0	18.8		ug/L		94	80 - 119
1,2-Dichlorobenzene	20.0	18.9		ug/L		95	83 - 122
1,4-Dichlorobenzene	20.0	18.8		ug/L		94	82 - 119
Dichlorobromomethane	20.0	19.1		ug/L		96	82 - 120
1,1-Dichloroethane	20.0	18.8		ug/L		94	78 - 124
1,2-Dichloroethane	20.0	19.3		ug/L		96	82 - 123
1,1-Dichloroethene	20.0	19.0		ug/L		95	72 - 133
1,2-Dichloropropane	20.0	18.7		ug/L		94	78 - 121
Ethylbenzene	20.0	19.2		ug/L		96	85 - 119
Ethylene Dibromide	20.0	19.1		ug/L		95	78 - 120
2-Hexanone	200	214		ug/L		107	54 - 132
Iodomethane	20.0	12.0		ug/L		60	32 - 169
Methylene Chloride	20.0	22.7		ug/L		114	75 - 125
4-Methyl-2-pentanone (MIBK)	200	195		ug/L		97	67 - 134
Styrene	20.0	19.6		ug/L		98	86 - 121
1,1,1,2-Tetrachloroethane	20.0	18.2		ug/L		91	80 - 118
1,1,2,2-Tetrachloroethane	20.0	19.5		ug/L		97	78 - 118
Tetrachloroethene	20.0	18.0		ug/L		90	81 - 126
Toluene	20.0	18.7		ug/L		94	82 - 122
trans-1,4-Dichloro-2-butene	40.0	35.0		ug/L		87	76 - 128
trans-1,2-Dichloroethene	20.0	18.5		ug/L		93	77 - 128
trans-1,3-Dichloropropene	20.0	17.4		ug/L		87	76 - 122

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 640-100048/2
Matrix: Water
Analysis Batch: 100048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.3		ug/L		92	85 - 122
1,1,2-Trichloroethane	20.0	19.0		ug/L		95	76 - 122
Trichloroethene	20.0	18.3		ug/L		91	82 - 121
Trichlorofluoromethane	20.0	23.5		ug/L		118	84 - 139
1,2,3-Trichloropropane	20.0	18.4		ug/L		92	79 - 128
Vinyl acetate	40.0	33.5		ug/L		84	39 - 185
Vinyl chloride	20.0	20.5		ug/L		102	70 - 139
Xylenes, Total	60.0	57.1		ug/L		95	86 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*87 - 114*
Dibromofluoromethane	*101*		*81 - 113*
Toluene-d8 (Surr)	*103*		*87 - 112*

Lab Sample ID: LCSD 640-100048/3
Matrix: Water
Analysis Batch: 100048

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	200	222		ug/L		111	64 - 132	4	28
Acrylonitrile	400	422		ug/L		106	72 - 124	2	40
Benzene	20.0	20.3		ug/L		101	80 - 120	3	20
Bromoform	20.0	18.1		ug/L		90	64 - 132	1	20
Bromomethane	20.0	13.8		ug/L		69	37 - 146	6	38
2-Butanone (MEK)	200	209		ug/L		104	66 - 132	2	28
Carbon disulfide	20.0	19.2		ug/L		96	72 - 132	7	23
Carbon tetrachloride	20.0	19.3		ug/L		97	79 - 126	1	20
Chlorobenzene	20.0	19.3		ug/L		97	82 - 116	2	20
Chlorobromomethane	20.0	19.0		ug/L		95	72 - 124	0	20
Chlorodibromomethane	20.0	18.7		ug/L		93	73 - 125	2	20
Chloroethane	20.0	22.1		ug/L		110	47 - 160	4	35
Chloroform	20.0	19.8		ug/L		99	81 - 120	5	20
Chloromethane	20.0	17.4		ug/L		87	61 - 136	3	20
cis-1,2-Dichloroethene	20.0	19.5		ug/L		98	75 - 128	5	20
cis-1,3-Dichloropropene	20.0	19.2		ug/L		96	79 - 120	4	20
1,2-Dibromo-3-Chloropropane	20.0	20.6		ug/L		103	57 - 128	2	25
Dibromomethane	20.0	18.4		ug/L		92	80 - 119	2	20
1,2-Dichlorobenzene	20.0	19.5		ug/L		97	83 - 122	3	20
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	82 - 119	4	20
Dichlorobromomethane	20.0	19.5		ug/L		98	82 - 120	2	20
1,1-Dichloroethane	20.0	20.1		ug/L		100	78 - 124	7	20
1,2-Dichloroethane	20.0	19.2		ug/L		96	82 - 123	0	20
1,1-Dichloroethene	20.0	20.5		ug/L		103	72 - 133	8	24
1,2-Dichloropropane	20.0	19.9		ug/L		99	78 - 121	6	20
Ethylbenzene	20.0	20.2		ug/L		101	85 - 119	5	20
Ethylene Dibromide	20.0	19.3		ug/L		96	78 - 120	1	20
2-Hexanone	200	212		ug/L		106	54 - 132	1	32
Iodomethane	20.0	11.0		ug/L		55	32 - 169	9	40

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 640-100048/3
Matrix: Water
Analysis Batch: 100048

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			20.0	23.8		ug/L		119	75 - 125	4	22
4-Methyl-2-pentanone (MIBK)			200	196		ug/L		98	67 - 134	1	20
Styrene			20.0	20.5		ug/L		103	86 - 121	5	20
1,1,1,2-Tetrachloroethane			20.0	20.4		ug/L		102	80 - 118	11	20
1,1,2,2-Tetrachloroethane			20.0	19.5		ug/L		98	78 - 118	0	20
Tetrachloroethene			20.0	19.3		ug/L		96	81 - 126	7	20
Toluene			20.0	19.8		ug/L		99	82 - 122	6	20
trans-1,4-Dichloro-2-butene			40.0	35.0		ug/L		88	76 - 128	0	26
trans-1,2-Dichloroethene			20.0	19.5		ug/L		98	77 - 128	5	22
trans-1,3-Dichloropropene			20.0	18.0		ug/L		90	76 - 122	4	20
1,1,1-Trichloroethane			20.0	18.8		ug/L		94	85 - 122	3	20
1,1,2-Trichloroethane			20.0	19.0		ug/L		95	76 - 122	0	20
Trichloroethene			20.0	19.3		ug/L		96	82 - 121	5	20
Trichlorofluoromethane			20.0	24.3		ug/L		122	84 - 139	3	20
1,2,3-Trichloropropane			20.0	18.4		ug/L		92	79 - 128	0	20
Vinyl acetate			40.0	35.9		ug/L		90	39 - 185	7	27
Vinyl chloride			20.0	19.9		ug/L		99	70 - 139	3	20
Xylenes, Total			60.0	59.2		ug/L		99	86 - 123	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*87 - 114*
Dibromofluoromethane	*101*		*81 - 113*
Toluene-d8 (Surr)	*102*		*87 - 112*

Lab Sample ID: MB 640-99896/4
Matrix: Water
Analysis Batch: 99896

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/05/13 10:52	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/05/13 10:52	1
Benzene	0.13	U	1.0	0.13	ug/L			03/05/13 10:52	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/05/13 10:52	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/05/13 10:52	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/05/13 10:52	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/05/13 10:52	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/05/13 10:52	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/05/13 10:52	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/05/13 10:52	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/05/13 10:52	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/05/13 10:52	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/05/13 10:52	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/05/13 10:52	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/05/13 10:52	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 10:52	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/05/13 10:52	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/05/13 10:52	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/05/13 10:52	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 640-99896/4
Matrix: Water
Analysis Batch: 99896

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/05/13 10:52	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/05/13 10:52	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 10:52	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/05/13 10:52	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/05/13 10:52	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/05/13 10:52	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/05/13 10:52	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/05/13 10:52	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/05/13 10:52	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/05/13 10:52	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/05/13 10:52	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/05/13 10:52	1
Styrene	0.12	U	1.0	0.12	ug/L			03/05/13 10:52	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/05/13 10:52	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/05/13 10:52	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/05/13 10:52	1
Toluene	0.14	U	1.0	0.14	ug/L			03/05/13 10:52	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/05/13 10:52	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/05/13 10:52	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/05/13 10:52	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/05/13 10:52	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/05/13 10:52	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/05/13 10:52	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/05/13 10:52	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/05/13 10:52	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/05/13 10:52	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/05/13 10:52	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/05/13 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*87 - 114*		*03/05/13 10:52*	*1*
Dibromofluoromethane	*92*		*81 - 113*		*03/05/13 10:52*	*1*
Toluene-d8 (Surr)	*103*		*87 - 112*		*03/05/13 10:52*	*1*

Lab Sample ID: LCS 640-99896/8
Matrix: Water
Analysis Batch: 99896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	300	279		ug/L		93	64 - 132
Acrylonitrile	600	589		ug/L		98	72 - 124
Benzene	30.0	31.0		ug/L		103	80 - 120
Bromoform	30.0	32.3		ug/L		108	64 - 132
Bromomethane	30.0	37.9		ug/L		126	37 - 146
2-Butanone (MEK)	300	308		ug/L		103	66 - 132
Carbon disulfide	30.0	29.2		ug/L		97	72 - 132
Carbon tetrachloride	30.0	29.5		ug/L		98	79 - 126
Chlorobenzene	30.0	32.4		ug/L		108	82 - 116

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 640-99896/8
Matrix: Water
Analysis Batch: 99896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobromomethane	30.0	28.5		ug/L		95	72 - 124
Chlorodibromomethane	30.0	33.0		ug/L		110	73 - 125
Chloroethane	30.0	37.2		ug/L		124	47 - 160
Chloroform	30.0	29.3		ug/L		98	81 - 120
Chloromethane	30.0	31.4		ug/L		105	61 - 136
cis-1,2-Dichloroethene	30.0	28.7		ug/L		96	75 - 128
cis-1,3-Dichloropropene	30.0	29.4		ug/L		98	79 - 120
1,2-Dibromo-3-Chloropropane	30.0	32.1		ug/L		107	57 - 128
Dibromomethane	30.0	31.5		ug/L		105	80 - 119
1,2-Dichlorobenzene	30.0	32.0		ug/L		107	83 - 122
1,4-Dichlorobenzene	30.0	31.9		ug/L		106	82 - 119
Dichlorobromomethane	30.0	31.1		ug/L		104	82 - 120
1,1-Dichloroethane	30.0	29.7		ug/L		99	78 - 124
1,2-Dichloroethane	30.0	32.3		ug/L		108	82 - 123
1,1-Dichloroethene	30.0	31.7		ug/L		106	72 - 133
1,2-Dichloropropane	30.0	30.4		ug/L		101	78 - 121
Ethylbenzene	30.0	32.5		ug/L		108	85 - 119
Ethylene Dibromide	30.0	28.7		ug/L		96	78 - 120
2-Hexanone	300	319		ug/L		106	54 - 132
Iodomethane	30.0	29.7		ug/L		99	32 - 169
Methylene Chloride	30.0	28.0		ug/L		93	75 - 125
4-Methyl-2-pentanone (MIBK)	300	308		ug/L		103	67 - 134
Styrene	30.0	32.3		ug/L		108	86 - 121
1,1,1,2-Tetrachloroethane	30.0	31.1		ug/L		104	80 - 118
1,1,2,2-Tetrachloroethane	30.0	30.6		ug/L		102	78 - 118
Tetrachloroethene	30.0	32.3		ug/L		108	81 - 126
Toluene	30.0	31.4		ug/L		105	82 - 122
trans-1,4-Dichloro-2-butene	60.0	60.8		ug/L		101	76 - 128
trans-1,2-Dichloroethene	30.0	29.6		ug/L		99	77 - 128
trans-1,3-Dichloropropene	30.0	28.1		ug/L		94	76 - 122
1,1,1-Trichloroethane	30.0	29.9		ug/L		100	85 - 122
1,1,2-Trichloroethane	30.0	30.4		ug/L		101	76 - 122
Trichloroethene	30.0	31.0		ug/L		103	82 - 121
Trichlorofluoromethane	30.0	36.6		ug/L		122	84 - 139
1,2,3-Trichloropropane	30.0	30.2		ug/L		101	79 - 128
Vinyl acetate	60.0	56.1		ug/L		94	39 - 185
Vinyl chloride	30.0	33.1		ug/L		110	70 - 139
Xylenes, Total	90.0	95.0		ug/L		106	86 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*87 - 114*
Dibromofluoromethane	*96*		*81 - 113*
Toluene-d8 (Surr)	*100*		*87 - 112*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 640-99896/3
Matrix: Water
Analysis Batch: 99896

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	300	273		ug/L		91	64 - 132	2	28
Acrylonitrile	600	577		ug/L		96	72 - 124	2	40
Benzene	30.0	32.3		ug/L		108	80 - 120	4	20
Bromoform	30.0	31.0		ug/L		103	64 - 132	4	20
Bromomethane	30.0	38.7		ug/L		129	37 - 146	2	38
2-Butanone (MEK)	300	304		ug/L		101	66 - 132	1	28
Carbon disulfide	30.0	30.5		ug/L		102	72 - 132	4	23
Carbon tetrachloride	30.0	31.2		ug/L		104	79 - 126	5	20
Chlorobenzene	30.0	31.2		ug/L		104	82 - 116	4	20
Chlorobromomethane	30.0	29.4		ug/L		98	72 - 124	3	20
Chlorodibromomethane	30.0	31.8		ug/L		106	73 - 125	4	20
Chloroethane	30.0	37.2		ug/L		124	47 - 160	0	35
Chloroform	30.0	29.8		ug/L		99	81 - 120	2	20
Chloromethane	30.0	31.7		ug/L		106	61 - 136	1	20
cis-1,2-Dichloroethene	30.0	28.8		ug/L		96	75 - 128	0	20
cis-1,3-Dichloropropene	30.0	30.0		ug/L		100	79 - 120	2	20
1,2-Dibromo-3-Chloropropane	30.0	30.0		ug/L		100	57 - 128	7	25
Dibromomethane	30.0	31.8		ug/L		106	80 - 119	1	20
1,2-Dichlorobenzene	30.0	30.0		ug/L		100	83 - 122	7	20
1,4-Dichlorobenzene	30.0	30.9		ug/L		103	82 - 119	3	20
Dichlorobromomethane	30.0	32.2		ug/L		107	82 - 120	4	20
1,1-Dichloroethane	30.0	30.4		ug/L		101	78 - 124	2	20
1,2-Dichloroethane	30.0	33.4		ug/L		111	82 - 123	4	20
1,1-Dichloroethene	30.0	32.5		ug/L		108	72 - 133	2	24
1,2-Dichloropropane	30.0	31.5		ug/L		105	78 - 121	4	20
Ethylbenzene	30.0	32.8		ug/L		109	85 - 119	1	20
Ethylene Dibromide	30.0	29.7		ug/L		99	78 - 120	3	20
2-Hexanone	300	314		ug/L		105	54 - 132	2	32
Iodomethane	30.0	30.6		ug/L		102	32 - 169	3	40
Methylene Chloride	30.0	28.2		ug/L		94	75 - 125	1	22
4-Methyl-2-pentanone (MIBK)	300	288		ug/L		96	67 - 134	7	20
Styrene	30.0	30.9		ug/L		103	86 - 121	4	20
1,1,1,2-Tetrachloroethane	30.0	30.4		ug/L		101	80 - 118	2	20
1,1,2,2-Tetrachloroethane	30.0	30.3		ug/L		101	78 - 118	1	20
Tetrachloroethene	30.0	32.5		ug/L		108	81 - 126	1	20
Toluene	30.0	31.5		ug/L		105	82 - 122	0	20
trans-1,4-Dichloro-2-butene	60.0	58.2		ug/L		97	76 - 128	4	26
trans-1,2-Dichloroethene	30.0	30.3		ug/L		101	77 - 128	2	22
trans-1,3-Dichloropropene	30.0	29.5		ug/L		98	76 - 122	5	20
1,1,1-Trichloroethane	30.0	31.3		ug/L		104	85 - 122	5	20
1,1,2-Trichloroethane	30.0	31.2		ug/L		104	76 - 122	3	20
Trichloroethene	30.0	32.6		ug/L		109	82 - 121	5	20
Trichlorofluoromethane	30.0	37.7		ug/L		126	84 - 139	3	20
1,2,3-Trichloropropane	30.0	30.8		ug/L		103	79 - 128	2	20
Vinyl acetate	60.0	57.4		ug/L		96	39 - 185	2	27
Vinyl chloride	30.0	33.2		ug/L		111	70 - 139	0	20
Xylenes, Total	90.0	94.1		ug/L		105	86 - 123	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 640-99896/3
Matrix: Water
Analysis Batch: 99896

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*100*		*87 - 114*
Dibromofluoromethane	*97*		*81 - 113*
Toluene-d8 (Surr)	*101*		*87 - 112*

Lab Sample ID: 640-42491-12 MS
Matrix: Water
Analysis Batch: 99896

Client Sample ID: MWB-3(S)b
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	2.8	U	400	338		ug/L		85	61 - 131
Acrylonitrile	3.0	U	800	707		ug/L		88	72 - 123
Benzene	0.13	U	40.0	38.8		ug/L		97	74 - 125
Bromoform	0.18	U	40.0	37.9		ug/L		95	52 - 134
Bromomethane	0.51	U	40.0	39.3		ug/L		98	10 - 182
2-Butanone (MEK)	2.6	U	400	358		ug/L		89	68 - 120
Carbon disulfide	0.23	U	40.0	33.8		ug/L		84	52 - 170
Carbon tetrachloride	0.18	U	40.0	36.9		ug/L		92	73 - 131
Chlorobenzene	0.13	U	40.0	35.2		ug/L		88	80 - 118
Chlorobromomethane	0.21	U	40.0	34.7		ug/L		87	63 - 129
Chlorodibromomethane	0.15	U	40.0	39.0		ug/L		97	64 - 125
Chloroethane	0.33	U	40.0	51.0		ug/L		127	29 - 148
Chloroform	0.12	U	40.0	35.6		ug/L		89	78 - 123
Chloromethane	0.18	U	40.0	41.3		ug/L		103	51 - 142
cis-1,2-Dichloroethene	0.21	U	40.0	32.8		ug/L		82	64 - 134
cis-1,3-Dichloropropene	0.14	U	40.0	36.0		ug/L		90	67 - 112
1,2-Dibromo-3-Chloropropane	0.31	U	40.0	34.7		ug/L		87	52 - 135
Dibromomethane	0.20	U	40.0	38.6		ug/L		97	78 - 118
1,2-Dichlorobenzene	0.14	U	40.0	34.5		ug/L		86	72 - 130
1,4-Dichlorobenzene	0.20	U	40.0	34.5		ug/L		86	76 - 122
Dichlorobromomethane	0.17	U	40.0	39.0		ug/L		98	76 - 119
1,1-Dichloroethane	0.20	U	40.0	35.9		ug/L		90	71 - 135
1,2-Dichloroethane	0.15	U	40.0	41.9		ug/L		105	78 - 127
1,1-Dichloroethene	0.23	U	40.0	36.6		ug/L		92	60 - 151
1,2-Dichloropropane	0.17	U	40.0	38.8		ug/L		97	76 - 118
Ethylbenzene	0.16	U	40.0	36.1		ug/L		90	60 - 132
Ethylene Dibromide	0.15	U	40.0	35.6		ug/L		89	74 - 116
2-Hexanone	1.0	U	400	398		ug/L		99	52 - 127
Iodomethane	0.13	U	40.0	25.4		ug/L		64	10 - 165
Methylene Chloride	0.21	U	40.0	33.0		ug/L		82	71 - 130
4-Methyl-2-pentanone (MIBK)	1.5	U	400	360		ug/L		90	67 - 131
Styrene	0.12	U	40.0	35.0		ug/L		87	74 - 124
1,1,1,2-Tetrachloroethane	0.14	U	40.0	34.6		ug/L		86	70 - 119
1,1,2,2-Tetrachloroethane	0.11	U	40.0	35.8		ug/L		90	74 - 124
Tetrachloroethene	0.19	U	40.0	34.6		ug/L		86	71 - 133
Toluene	0.14	U	40.0	37.3		ug/L		93	49 - 146
trans-1,4-Dichloro-2-butene	0.43	U	80.0	57.9		ug/L		72	61 - 125
trans-1,2-Dichloroethene	0.26	U	40.0	34.3		ug/L		86	72 - 135
trans-1,3-Dichloropropene	0.14	U	40.0	33.4		ug/L		83	64 - 110

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 640-42491-12 MS
Matrix: Water
Analysis Batch: 99896

Client Sample ID: MWB-3(S)b
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.16	U	40.0	37.6		ug/L		94	85 - 123
1,1,2-Trichloroethane	0.20	U	40.0	38.6		ug/L		96	72 - 120
Trichloroethene	0.16	U	40.0	37.6		ug/L		94	75 - 122
Trichlorofluoromethane	0.21	U	40.0	45.3		ug/L		113	83 - 147
1,2,3-Trichloropropane	0.23	U	40.0	35.9		ug/L		90	78 - 128
Vinyl acetate	0.38	U	80.0	74.2		ug/L		93	12 - 189
Vinyl chloride	0.22	U	40.0	46.4		ug/L		116	61 - 148
Xylenes, Total	0.44	U	120	104		ug/L		87	61 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*87 - 114*
Dibromofluoromethane	*96*		*81 - 113*
Toluene-d8 (Surr)	*105*		*87 - 112*

Lab Sample ID: 640-42491-12 MSD
Matrix: Water
Analysis Batch: 99896

Client Sample ID: MWB-3(S)b
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	2.8	U	400	355		ug/L		89	61 - 131	5	40
Acrylonitrile	3.0	U	800	767		ug/L		96	72 - 123	8	29
Benzene	0.13	U	40.0	42.5		ug/L		106	74 - 125	9	23
Bromoform	0.18	U	40.0	41.9		ug/L		105	52 - 134	10	28
Bromomethane	0.51	U	40.0	45.2		ug/L		113	10 - 182	14	56
2-Butanone (MEK)	2.6	U	400	416		ug/L		104	68 - 120	15	28
Carbon disulfide	0.23	U	40.0	37.6		ug/L		94	52 - 170	11	31
Carbon tetrachloride	0.18	U	40.0	42.8		ug/L		107	73 - 131	15	20
Chlorobenzene	0.13	U	40.0	40.3		ug/L		101	80 - 118	14	20
Chlorobromomethane	0.21	U	40.0	35.9		ug/L		90	63 - 129	3	24
Chlorodibromomethane	0.15	U	40.0	43.3		ug/L		108	64 - 125	11	22
Chloroethane	0.33	U	40.0	46.8		ug/L		117	29 - 148	8	50
Chloroform	0.12	U	40.0	38.6		ug/L		96	78 - 123	8	22
Chloromethane	0.18	U	40.0	40.1		ug/L		100	51 - 142	3	27
cis-1,2-Dichloroethene	0.21	U	40.0	36.3		ug/L		91	64 - 134	10	32
cis-1,3-Dichloropropene	0.14	U	40.0	39.9		ug/L		100	67 - 112	10	23
1,2-Dibromo-3-Chloropropane	0.31	U	40.0	39.5		ug/L		99	52 - 135	13	37
Dibromomethane	0.20	U	40.0	42.5		ug/L		106	78 - 118	10	22
1,2-Dichlorobenzene	0.14	U	40.0	37.9		ug/L		95	72 - 130	9	24
1,4-Dichlorobenzene	0.20	U	40.0	37.9		ug/L		95	76 - 122	9	23
Dichlorobromomethane	0.17	U	40.0	43.0		ug/L		108	76 - 119	10	24
1,1-Dichloroethane	0.20	U	40.0	38.9		ug/L		97	71 - 135	8	22
1,2-Dichloroethane	0.15	U	40.0	44.3		ug/L		111	78 - 127	6	22
1,1-Dichloroethene	0.23	U	40.0	41.0		ug/L		103	60 - 151	11	31
1,2-Dichloropropane	0.17	U	40.0	42.6		ug/L		106	76 - 118	9	23
Ethylbenzene	0.16	U	40.0	41.6		ug/L		104	60 - 132	14	24
Ethylene Dibromide	0.15	U	40.0	39.5		ug/L		99	74 - 116	10	24
2-Hexanone	1.0	U	400	440		ug/L		110	52 - 127	10	24
Iodomethane	0.13	U	40.0	32.3		ug/L		81	10 - 165	24	60

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 640-42491-12 MSD
Matrix: Water
Analysis Batch: 99896

Client Sample ID: MWB-3(S)b
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	0.21	U	40.0	36.3		ug/L		91	71 - 130	10	33
4-Methyl-2-pentanone (MIBK)	1.5	U	400	405		ug/L		101	67 - 131	12	23
Styrene	0.12	U	40.0	40.0		ug/L		100	74 - 124	13	23
1,1,1,2-Tetrachloroethane	0.14	U	40.0	38.5		ug/L		96	70 - 119	11	23
1,1,2,2-Tetrachloroethane	0.11	U	40.0	40.2		ug/L		101	74 - 124	12	24
Tetrachloroethene	0.19	U	40.0	40.2		ug/L		101	71 - 133	15	22
Toluene	0.14	U	40.0	41.4		ug/L		104	49 - 146	10	21
trans-1,4-Dichloro-2-butene	0.43	U	80.0	62.3		ug/L		78	61 - 125	7	50
trans-1,2-Dichloroethene	0.26	U	40.0	37.9		ug/L		95	72 - 135	10	29
trans-1,3-Dichloropropene	0.14	U	40.0	37.0		ug/L		92	64 - 110	10	26
1,1,1-Trichloroethane	0.16	U	40.0	43.2		ug/L		108	85 - 123	14	22
1,1,2-Trichloroethane	0.20	U	40.0	40.8		ug/L		102	72 - 120	6	22
Trichloroethene	0.16	U	40.0	41.9		ug/L		105	75 - 122	11	20
Trichlorofluoromethane	0.21	U	40.0	51.4		ug/L		128	83 - 147	12	28
1,2,3-Trichloropropane	0.23	U	40.0	41.0		ug/L		103	78 - 128	13	25
Vinyl acetate	0.38	U	80.0	72.5		ug/L		91	12 - 189	2	60
Vinyl chloride	0.22	U	40.0	44.5		ug/L		111	61 - 148	4	27
Xylenes, Total	0.44	U	120	120		ug/L		100	61 - 136	14	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*87 - 114*
Dibromofluoromethane	*92*		*81 - 113*
Toluene-d8 (Surr)	*105*		*87 - 112*

Lab Sample ID: MB 640-99918/5
Matrix: Water
Analysis Batch: 99918

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/04/13 13:15	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/04/13 13:15	1
Benzene	0.13	U	1.0	0.13	ug/L			03/04/13 13:15	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/04/13 13:15	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/04/13 13:15	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/04/13 13:15	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/04/13 13:15	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/04/13 13:15	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/04/13 13:15	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/04/13 13:15	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/04/13 13:15	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/04/13 13:15	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/04/13 13:15	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/04/13 13:15	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/04/13 13:15	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 13:15	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/04/13 13:15	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/04/13 13:15	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/04/13 13:15	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 640-99918/5
Matrix: Water
Analysis Batch: 99918

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/04/13 13:15	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/04/13 13:15	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 13:15	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/04/13 13:15	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/04/13 13:15	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/04/13 13:15	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/04/13 13:15	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/04/13 13:15	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/04/13 13:15	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/04/13 13:15	1
Methylene Chloride	0.380	I	5.0	0.21	ug/L			03/04/13 13:15	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/04/13 13:15	1
Styrene	0.12	U	1.0	0.12	ug/L			03/04/13 13:15	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/04/13 13:15	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/04/13 13:15	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/04/13 13:15	1
Toluene	0.14	U	1.0	0.14	ug/L			03/04/13 13:15	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/04/13 13:15	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/04/13 13:15	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/04/13 13:15	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/04/13 13:15	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/04/13 13:15	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/04/13 13:15	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/04/13 13:15	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/04/13 13:15	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/04/13 13:15	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/04/13 13:15	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/04/13 13:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*87 - 114*		*03/04/13 13:15*	*1*
Dibromofluoromethane	*102*		*81 - 113*		*03/04/13 13:15*	*1*
Toluene-d8 (Surr)	*100*		*87 - 112*		*03/04/13 13:15*	*1*

Lab Sample ID: LCS 640-99918/19
Matrix: Water
Analysis Batch: 99918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	300	278		ug/L		93	64 - 132
Acrylonitrile	600	533		ug/L		89	72 - 124
Benzene	30.0	28.0		ug/L		93	80 - 120
Bromoform	30.0	26.3		ug/L		88	64 - 132
Bromomethane	30.0	22.7		ug/L		76	37 - 146
2-Butanone (MEK)	300	276		ug/L		92	66 - 132
Carbon disulfide	30.0	26.5		ug/L		88	72 - 132
Carbon tetrachloride	30.0	28.4		ug/L		95	79 - 126
Chlorobenzene	30.0	27.4		ug/L		91	82 - 116

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 640-99918/19
Matrix: Water
Analysis Batch: 99918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobromomethane	30.0	25.9		ug/L		86	72 - 124
Chlorodibromomethane	30.0	27.5		ug/L		92	73 - 125
Chloroethane	30.0	32.3		ug/L		108	47 - 160
Chloroform	30.0	27.8		ug/L		93	81 - 120
Chloromethane	30.0	28.9		ug/L		96	61 - 136
cis-1,2-Dichloroethene	30.0	27.8		ug/L		93	75 - 128
cis-1,3-Dichloropropene	30.0	29.4		ug/L		98	79 - 120
1,2-Dibromo-3-Chloropropane	30.0	28.4		ug/L		95	57 - 128
Dibromomethane	30.0	25.9		ug/L		86	80 - 119
1,2-Dichlorobenzene	30.0	27.4		ug/L		91	83 - 122
1,4-Dichlorobenzene	30.0	27.7		ug/L		92	82 - 119
Dichlorobromomethane	30.0	28.4		ug/L		95	82 - 120
1,1-Dichloroethane	30.0	27.3		ug/L		91	78 - 124
1,2-Dichloroethane	30.0	27.5		ug/L		92	82 - 123
1,1-Dichloroethene	30.0	28.0		ug/L		93	72 - 133
1,2-Dichloropropane	30.0	27.8		ug/L		93	78 - 121
Ethylbenzene	30.0	28.5		ug/L		95	85 - 119
Ethylene Dibromide	30.0	26.5		ug/L		88	78 - 120
2-Hexanone	300	286		ug/L		95	54 - 132
Iodomethane	30.0	20.8		ug/L		69	32 - 169
Methylene Chloride	30.0	31.2		ug/L		104	75 - 125
4-Methyl-2-pentanone (MIBK)	300	274		ug/L		91	67 - 134
Styrene	30.0	30.2		ug/L		101	86 - 121
1,1,1,2-Tetrachloroethane	30.0	27.5		ug/L		92	80 - 118
1,1,2,2-Tetrachloroethane	30.0	25.6		ug/L		85	78 - 118
Tetrachloroethene	30.0	27.0		ug/L		90	81 - 126
Toluene	30.0	27.3		ug/L		91	82 - 122
trans-1,4-Dichloro-2-butene	60.0	49.1		ug/L		82	76 - 128
trans-1,2-Dichloroethene	30.0	27.0		ug/L		90	77 - 128
trans-1,3-Dichloropropene	30.0	28.0		ug/L		93	76 - 122
1,1,1-Trichloroethane	30.0	28.0		ug/L		93	85 - 122
1,1,2-Trichloroethane	30.0	26.9		ug/L		90	76 - 122
Trichloroethene	30.0	27.6		ug/L		92	82 - 121
Trichlorofluoromethane	30.0	35.1		ug/L		117	84 - 139
1,2,3-Trichloropropane	30.0	25.3		ug/L		84	79 - 128
Vinyl acetate	60.0	60.6		ug/L		101	39 - 185
Vinyl chloride	30.0	28.7		ug/L		96	70 - 139
Xylenes, Total	90.0	87.3		ug/L		97	86 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*87 - 114*
Dibromofluoromethane	*101*		*81 - 113*
Toluene-d8 (Surr)	*102*		*87 - 112*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 640-99918/4
Matrix: Water
Analysis Batch: 99918

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	300	297		ug/L		99	64 - 132	7	28
Acrylonitrile	600	572		ug/L		95	72 - 124	7	40
Benzene	30.0	30.5		ug/L		102	80 - 120	8	20
Bromoform	30.0	28.2		ug/L		94	64 - 132	7	20
Bromomethane	30.0	25.2		ug/L		84	37 - 146	11	38
2-Butanone (MEK)	300	281		ug/L		94	66 - 132	2	28
Carbon disulfide	30.0	28.1		ug/L		94	72 - 132	6	23
Carbon tetrachloride	30.0	29.2		ug/L		97	79 - 126	3	20
Chlorobenzene	30.0	29.6		ug/L		99	82 - 116	8	20
Chlorobromomethane	30.0	28.8		ug/L		96	72 - 124	10	20
Chlorodibromomethane	30.0	29.3		ug/L		98	73 - 125	7	20
Chloroethane	30.0	32.2		ug/L		107	47 - 160	0	35
Chloroform	30.0	30.4		ug/L		101	81 - 120	9	20
Chloromethane	30.0	31.9		ug/L		106	61 - 136	10	20
cis-1,2-Dichloroethene	30.0	29.8		ug/L		99	75 - 128	7	20
cis-1,3-Dichloropropene	30.0	30.0		ug/L		100	79 - 120	2	20
1,2-Dibromo-3-Chloropropane	30.0	32.6		ug/L		109	57 - 128	14	25
Dibromomethane	30.0	28.9		ug/L		96	80 - 119	11	20
1,2-Dichlorobenzene	30.0	29.0		ug/L		97	83 - 122	6	20
1,4-Dichlorobenzene	30.0	30.0		ug/L		100	82 - 119	8	20
Dichlorobromomethane	30.0	28.7		ug/L		96	82 - 120	1	20
1,1-Dichloroethane	30.0	30.1		ug/L		100	78 - 124	10	20
1,2-Dichloroethane	30.0	28.7		ug/L		96	82 - 123	4	20
1,1-Dichloroethene	30.0	29.9		ug/L		100	72 - 133	7	24
1,2-Dichloropropane	30.0	29.3		ug/L		98	78 - 121	5	20
Ethylbenzene	30.0	30.8		ug/L		103	85 - 119	8	20
Ethylene Dibromide	30.0	29.4		ug/L		98	78 - 120	10	20
2-Hexanone	300	319		ug/L		106	54 - 132	11	32
Iodomethane	30.0	23.7		ug/L		79	32 - 169	13	40
Methylene Chloride	30.0	34.6		ug/L		115	75 - 125	10	22
4-Methyl-2-pentanone (MIBK)	300	302		ug/L		101	67 - 134	10	20
Styrene	30.0	32.0		ug/L		107	86 - 121	6	20
1,1,1,2-Tetrachloroethane	30.0	29.5		ug/L		98	80 - 118	7	20
1,1,2,2-Tetrachloroethane	30.0	28.1		ug/L		94	78 - 118	9	20
Tetrachloroethene	30.0	29.4		ug/L		98	81 - 126	9	20
Toluene	30.0	30.1		ug/L		100	82 - 122	10	20
trans-1,4-Dichloro-2-butene	60.0	56.1		ug/L		94	76 - 128	13	26
trans-1,2-Dichloroethene	30.0	30.4		ug/L		101	77 - 128	12	22
trans-1,3-Dichloropropene	30.0	30.1		ug/L		100	76 - 122	7	20
1,1,1-Trichloroethane	30.0	28.5		ug/L		95	85 - 122	2	20
1,1,2-Trichloroethane	30.0	28.3		ug/L		94	76 - 122	5	20
Trichloroethene	30.0	28.5		ug/L		95	82 - 121	3	20
Trichlorofluoromethane	30.0	40.8		ug/L		136	84 - 139	15	20
1,2,3-Trichloropropane	30.0	29.0		ug/L		97	79 - 128	13	20
Vinyl acetate	60.0	62.8		ug/L		105	39 - 185	4	27
Vinyl chloride	30.0	31.4		ug/L		105	70 - 139	9	20
Xylenes, Total	90.0	92.8		ug/L		103	86 - 123	6	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 640-99918/4
Matrix: Water
Analysis Batch: 99918

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*100*		*87 - 114*
Dibromofluoromethane	*101*		*81 - 113*
Toluene-d8 (Surr)	*101*		*87 - 112*

Lab Sample ID: 640-42469-1 MS
Matrix: Water
Analysis Batch: 99918

Client Sample ID: MWB-17(I)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	2.8	U	400	375		ug/L		94	61 - 131
Acrylonitrile	3.0	U	800	691		ug/L		86	72 - 123
Benzene	0.13	U	40.0	37.1		ug/L		93	74 - 125
Bromoform	0.18	U	40.0	28.8		ug/L		72	52 - 134
Bromomethane	0.51	U	40.0	23.9		ug/L		60	10 - 182
2-Butanone (MEK)	2.6	U	400	333		ug/L		83	68 - 120
Carbon disulfide	0.23	U	40.0	33.5		ug/L		84	52 - 170
Carbon tetrachloride	0.18	U	40.0	29.1		ug/L		73	73 - 131
Chlorobenzene	0.13	U	40.0	36.2		ug/L		91	80 - 118
Chlorobromomethane	0.21	U	40.0	34.0		ug/L		85	63 - 129
Chlorodibromomethane	0.15	U	40.0	32.0		ug/L		80	64 - 125
Chloroethane	0.33	U	40.0	41.0		ug/L		102	29 - 148
Chloroform	0.12	U	40.0	36.8		ug/L		92	78 - 123
Chloromethane	0.18	U	40.0	37.9		ug/L		95	51 - 142
cis-1,2-Dichloroethene	0.21	U	40.0	36.4		ug/L		91	64 - 134
cis-1,3-Dichloropropene	0.14	U	40.0	33.8		ug/L		84	67 - 112
1,2-Dibromo-3-Chloropropane	0.31	U	40.0	37.5		ug/L		94	52 - 135
Dibromomethane	0.20	U	40.0	34.4		ug/L		86	78 - 118
1,2-Dichlorobenzene	0.14	U	40.0	36.7		ug/L		92	72 - 130
1,4-Dichlorobenzene	0.20	U	40.0	35.9		ug/L		90	76 - 122
Dichlorobromomethane	0.17	U	40.0	33.7		ug/L		84	76 - 119
1,1-Dichloroethane	0.20	U	40.0	36.7		ug/L		92	71 - 135
1,2-Dichloroethane	0.15	U	40.0	36.0		ug/L		90	78 - 127
1,1-Dichloroethene	0.23	U	40.0	36.5		ug/L		91	60 - 151
1,2-Dichloropropane	0.17	U	40.0	35.9		ug/L		90	76 - 118
Ethylbenzene	0.16	U	40.0	37.4		ug/L		94	60 - 132
Ethylene Dibromide	0.15	U	40.0	35.5		ug/L		89	74 - 116
2-Hexanone	1.0	U	400	400		ug/L		100	52 - 127
Iodomethane	0.13	U	40.0	22.3		ug/L		56	10 - 165
Methylene Chloride	0.21	U	40.0	44.3		ug/L		111	71 - 130
4-Methyl-2-pentanone (MIBK)	1.5	U	400	377		ug/L		94	67 - 131
Styrene	0.12	U	40.0	38.1		ug/L		95	74 - 124
1,1,1,2-Tetrachloroethane	0.14	U	40.0	32.4		ug/L		81	70 - 119
1,1,2,2-Tetrachloroethane	0.11	U	40.0	36.9		ug/L		92	74 - 124
Tetrachloroethene	0.19	U	40.0	34.0		ug/L		85	71 - 133
Toluene	0.14	U	40.0	35.2		ug/L		88	49 - 146
trans-1,4-Dichloro-2-butene	0.43	U	80.0	61.0		ug/L		76	61 - 125
trans-1,2-Dichloroethene	0.26	U	40.0	35.2		ug/L		88	72 - 135
trans-1,3-Dichloropropene	0.14	U	40.0	31.6		ug/L		79	64 - 110

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 640-42469-1 MS
Matrix: Water
Analysis Batch: 99918

Client Sample ID: MWB-17(I)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.16	U	40.0	33.0	J	ug/L		83	85 - 123
1,1,2-Trichloroethane	0.20	U	40.0	35.1		ug/L		88	72 - 120
Trichloroethene	0.16	U	40.0	34.7		ug/L		87	75 - 122
Trichlorofluoromethane	0.21	U	40.0	41.8		ug/L		105	83 - 147
1,2,3-Trichloropropane	0.23	U	40.0	36.8		ug/L		92	78 - 128
Vinyl acetate	0.38	U	80.0	68.4		ug/L		85	12 - 189
Vinyl chloride	0.22	U	40.0	38.8		ug/L		97	61 - 148
Xylenes, Total	0.44	U	120	110		ug/L		92	61 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*87 - 114*
Dibromofluoromethane	*100*		*81 - 113*
Toluene-d8 (Surr)	*97*		*87 - 112*

Lab Sample ID: 640-42469-1 MSD
Matrix: Water
Analysis Batch: 99918

Client Sample ID: MWB-17(I)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	2.8	U	400	359		ug/L		90	61 - 131	4	40
Acrylonitrile	3.0	U	800	679		ug/L		85	72 - 123	2	29
Benzene	0.13	U	40.0	35.8		ug/L		90	74 - 125	3	23
Bromoform	0.18	U	40.0	27.0		ug/L		67	52 - 134	7	28
Bromomethane	0.51	U	40.0	21.9		ug/L		55	10 - 182	9	56
2-Butanone (MEK)	2.6	U	400	318		ug/L		80	68 - 120	5	28
Carbon disulfide	0.23	U	40.0	32.1		ug/L		80	52 - 170	4	31
Carbon tetrachloride	0.18	U	40.0	28.4	J	ug/L		71	73 - 131	2	20
Chlorobenzene	0.13	U	40.0	34.7		ug/L		87	80 - 118	4	20
Chlorobromomethane	0.21	U	40.0	32.7		ug/L		82	63 - 129	4	24
Chlorodibromomethane	0.15	U	40.0	30.1		ug/L		75	64 - 125	6	22
Chloroethane	0.33	U	40.0	49.2		ug/L		123	29 - 148	18	50
Chloroform	0.12	U	40.0	35.0		ug/L		88	78 - 123	5	22
Chloromethane	0.18	U	40.0	40.0		ug/L		100	51 - 142	5	27
cis-1,2-Dichloroethene	0.21	U	40.0	33.7		ug/L		84	64 - 134	8	32
cis-1,3-Dichloropropene	0.14	U	40.0	32.2		ug/L		81	67 - 112	5	23
1,2-Dibromo-3-Chloropropane	0.31	U	40.0	35.6		ug/L		89	52 - 135	5	37
Dibromomethane	0.20	U	40.0	33.0		ug/L		83	78 - 118	4	22
1,2-Dichlorobenzene	0.14	U	40.0	35.6		ug/L		89	72 - 130	3	24
1,4-Dichlorobenzene	0.20	U	40.0	34.2		ug/L		86	76 - 122	5	23
Dichlorobromomethane	0.17	U	40.0	32.7		ug/L		82	76 - 119	3	24
1,1-Dichloroethane	0.20	U	40.0	34.9		ug/L		87	71 - 135	5	22
1,2-Dichloroethane	0.15	U	40.0	34.0		ug/L		85	78 - 127	6	22
1,1-Dichloroethene	0.23	U	40.0	33.6		ug/L		84	60 - 151	8	31
1,2-Dichloropropane	0.17	U	40.0	35.2		ug/L		88	76 - 118	2	23
Ethylbenzene	0.16	U	40.0	35.3		ug/L		88	60 - 132	6	24
Ethylene Dibromide	0.15	U	40.0	35.2		ug/L		88	74 - 116	1	24
2-Hexanone	1.0	U	400	387		ug/L		97	52 - 127	3	24
Iodomethane	0.13	U	40.0	23.8		ug/L		59	10 - 165	6	60

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 640-42469-1 MSD
Matrix: Water
Analysis Batch: 99918

Client Sample ID: MWB-17(I)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	0.21	U	40.0	42.8		ug/L		107	71 - 130	3	33
4-Methyl-2-pentanone (MIBK)	1.5	U	400	369		ug/L		92	67 - 131	2	23
Styrene	0.12	U	40.0	35.3		ug/L		88	74 - 124	8	23
1,1,1,2-Tetrachloroethane	0.14	U	40.0	30.4		ug/L		76	70 - 119	6	23
1,1,2,2-Tetrachloroethane	0.11	U	40.0	34.3		ug/L		86	74 - 124	7	24
Tetrachloroethene	0.19	U	40.0	32.8		ug/L		82	71 - 133	4	22
Toluene	0.14	U	40.0	34.5		ug/L		86	49 - 146	2	21
trans-1,4-Dichloro-2-butene	0.43	U	80.0	61.7		ug/L		77	61 - 125	1	50
trans-1,2-Dichloroethene	0.26	U	40.0	33.1		ug/L		83	72 - 135	6	29
trans-1,3-Dichloropropene	0.14	U	40.0	32.1		ug/L		80	64 - 110	2	26
1,1,1-Trichloroethane	0.16	U	40.0	32.2	J	ug/L		81	85 - 123	2	22
1,1,2-Trichloroethane	0.20	U	40.0	33.9		ug/L		85	72 - 120	4	22
Trichloroethene	0.16	U	40.0	33.5		ug/L		84	75 - 122	4	20
Trichlorofluoromethane	0.21	U	40.0	45.2		ug/L		113	83 - 147	8	28
1,2,3-Trichloropropane	0.23	U	40.0	34.7		ug/L		87	78 - 128	6	25
Vinyl acetate	0.38	U	80.0	76.8		ug/L		96	12 - 189	12	60
Vinyl chloride	0.22	U	40.0	40.4		ug/L		101	61 - 148	4	27
Xylenes, Total	0.44	U	120	104		ug/L		87	61 - 136	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*87 - 114*
Dibromofluoromethane	*100*		*81 - 113*
Toluene-d8 (Surr)	*98*		*87 - 112*

Lab Sample ID: MB 640-99930/6
Matrix: Water
Analysis Batch: 99930

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.8	U	25	2.8	ug/L			03/06/13 13:03	1
Acrylonitrile	3.0	U	20	3.0	ug/L			03/06/13 13:03	1
Benzene	0.13	U	1.0	0.13	ug/L			03/06/13 13:03	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/06/13 13:03	1
Bromomethane	0.51	U	1.0	0.51	ug/L			03/06/13 13:03	1
2-Butanone (MEK)	2.6	U	10	2.6	ug/L			03/06/13 13:03	1
Carbon disulfide	0.23	U	1.0	0.23	ug/L			03/06/13 13:03	1
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			03/06/13 13:03	1
Chlorobenzene	0.13	U	1.0	0.13	ug/L			03/06/13 13:03	1
Chlorobromomethane	0.21	U	1.0	0.21	ug/L			03/06/13 13:03	1
Chlorodibromomethane	0.15	U	1.0	0.15	ug/L			03/06/13 13:03	1
Chloroethane	0.33	U	1.0	0.33	ug/L			03/06/13 13:03	1
Chloroform	0.12	U	1.0	0.12	ug/L			03/06/13 13:03	1
Chloromethane	0.18	U	1.0	0.18	ug/L			03/06/13 13:03	1
cis-1,2-Dichloroethene	0.21	U	1.0	0.21	ug/L			03/06/13 13:03	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 13:03	1
1,2-Dibromo-3-Chloropropane	0.31	U	1.0	0.31	ug/L			03/06/13 13:03	1
Dibromomethane	0.20	U	1.0	0.20	ug/L			03/06/13 13:03	1
1,2-Dichlorobenzene	0.14	U	1.0	0.14	ug/L			03/06/13 13:03	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 640-99930/6
Matrix: Water
Analysis Batch: 99930

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.20	U	1.0	0.20	ug/L			03/06/13 13:03	1
Dichlorobromomethane	0.17	U	1.0	0.17	ug/L			03/06/13 13:03	1
1,1-Dichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 13:03	1
1,2-Dichloroethane	0.15	U	1.0	0.15	ug/L			03/06/13 13:03	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			03/06/13 13:03	1
1,2-Dichloropropane	0.17	U	1.0	0.17	ug/L			03/06/13 13:03	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			03/06/13 13:03	1
Ethylene Dibromide	0.15	U	1.0	0.15	ug/L			03/06/13 13:03	1
2-Hexanone	1.0	U	10	1.0	ug/L			03/06/13 13:03	1
Iodomethane	0.13	U	5.0	0.13	ug/L			03/06/13 13:03	1
Methylene Chloride	0.21	U	5.0	0.21	ug/L			03/06/13 13:03	1
4-Methyl-2-pentanone (MIBK)	1.5	U	10	1.5	ug/L			03/06/13 13:03	1
Styrene	0.12	U	1.0	0.12	ug/L			03/06/13 13:03	1
1,1,1,2-Tetrachloroethane	0.14	U	1.0	0.14	ug/L			03/06/13 13:03	1
1,1,2,2-Tetrachloroethane	0.11	U	1.0	0.11	ug/L			03/06/13 13:03	1
Tetrachloroethene	0.19	U	1.0	0.19	ug/L			03/06/13 13:03	1
Toluene	0.14	U	1.0	0.14	ug/L			03/06/13 13:03	1
trans-1,4-Dichloro-2-butene	0.43	U	2.0	0.43	ug/L			03/06/13 13:03	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/06/13 13:03	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			03/06/13 13:03	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			03/06/13 13:03	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			03/06/13 13:03	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			03/06/13 13:03	1
Trichlorofluoromethane	0.21	U	1.0	0.21	ug/L			03/06/13 13:03	1
1,2,3-Trichloropropane	0.23	U	1.0	0.23	ug/L			03/06/13 13:03	1
Vinyl acetate	0.38	U	2.0	0.38	ug/L			03/06/13 13:03	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			03/06/13 13:03	1
Xylenes, Total	0.44	U	2.0	0.44	ug/L			03/06/13 13:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*87 - 114*		*03/06/13 13:03*	*1*
Dibromofluoromethane	*93*		*81 - 113*		*03/06/13 13:03*	*1*
Toluene-d8 (Surr)	*103*		*87 - 112*		*03/06/13 13:03*	*1*

Lab Sample ID: LCS 640-99930/2
Matrix: Water
Analysis Batch: 99930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	300	284		ug/L		95	64 - 132
Acrylonitrile	600	615		ug/L		103	72 - 124
Benzene	30.0	32.9		ug/L		110	80 - 120
Bromoform	30.0	39.6		ug/L		132	64 - 132
Bromomethane	30.0	33.7		ug/L		112	37 - 146
2-Butanone (MEK)	300	323		ug/L		108	66 - 132
Carbon disulfide	30.0	30.8		ug/L		103	72 - 132
Carbon tetrachloride	30.0	36.0		ug/L		120	79 - 126
Chlorobenzene	30.0	32.0		ug/L		107	82 - 116

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 640-99930/2
Matrix: Water
Analysis Batch: 99930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobromomethane	30.0	28.6		ug/L		95	72 - 124
Chlorodibromomethane	30.0	36.8		ug/L		123	73 - 125
Chloroethane	30.0	31.3		ug/L		104	47 - 160
Chloroform	30.0	29.9		ug/L		100	81 - 120
Chloromethane	30.0	25.9		ug/L		86	61 - 136
cis-1,2-Dichloroethene	30.0	28.2		ug/L		94	75 - 128
cis-1,3-Dichloropropene	30.0	33.4		ug/L		111	79 - 120
1,2-Dibromo-3-Chloropropane	30.0	35.3		ug/L		118	57 - 128
Dibromomethane	30.0	33.8		ug/L		113	80 - 119
1,2-Dichlorobenzene	30.0	30.8		ug/L		103	83 - 122
1,4-Dichlorobenzene	30.0	32.3		ug/L		108	82 - 119
Dichlorobromomethane	30.0	36.9	J	ug/L		123	82 - 120
1,1-Dichloroethane	30.0	29.3		ug/L		98	78 - 124
1,2-Dichloroethane	30.0	35.2		ug/L		117	82 - 123
1,1-Dichloroethene	30.0	30.7		ug/L		102	72 - 133
1,2-Dichloropropane	30.0	34.1		ug/L		114	78 - 121
Ethylbenzene	30.0	33.9		ug/L		113	85 - 119
Ethylene Dibromide	30.0	32.4		ug/L		108	78 - 120
2-Hexanone	300	339		ug/L		113	54 - 132
Iodomethane	30.0	26.1		ug/L		87	32 - 169
Methylene Chloride	30.0	27.7		ug/L		92	75 - 125
4-Methyl-2-pentanone (MIBK)	300	315		ug/L		105	67 - 134
Styrene	30.0	32.2		ug/L		107	86 - 121
1,1,1,2-Tetrachloroethane	30.0	33.3		ug/L		111	80 - 118
1,1,2,2-Tetrachloroethane	30.0	31.3		ug/L		104	78 - 118
Tetrachloroethene	30.0	32.1		ug/L		107	81 - 126
Toluene	30.0	33.3		ug/L		111	82 - 122
trans-1,4-Dichloro-2-butene	60.0	62.4		ug/L		104	76 - 128
trans-1,2-Dichloroethene	30.0	29.6		ug/L		99	77 - 128
trans-1,3-Dichloropropene	30.0	32.8		ug/L		109	76 - 122
1,1,1-Trichloroethane	30.0	33.8		ug/L		113	85 - 122
1,1,2-Trichloroethane	30.0	33.5		ug/L		112	76 - 122
Trichloroethene	30.0	32.7		ug/L		109	82 - 121
Trichlorofluoromethane	30.0	31.6		ug/L		105	84 - 139
1,2,3-Trichloropropane	30.0	31.8		ug/L		106	79 - 128
Vinyl acetate	60.0	47.3		ug/L		79	39 - 185
Vinyl chloride	30.0	30.2		ug/L		101	70 - 139
Xylenes, Total	90.0	97.4		ug/L		108	86 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*87 - 114*
Dibromofluoromethane	*92*		*81 - 113*
Toluene-d8 (Surr)	*108*		*87 - 112*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 640-99930/4
Matrix: Water
Analysis Batch: 99930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	300	288		ug/L		96	64 - 132	1	28
Acrylonitrile	600	636		ug/L		106	72 - 124	3	40
Benzene	30.0	35.0		ug/L		117	80 - 120	6	20
Bromoform	30.0	40.2	J	ug/L		134	64 - 132	2	20
Bromomethane	30.0	38.4		ug/L		128	37 - 146	13	38
2-Butanone (MEK)	300	342		ug/L		114	66 - 132	5	28
Carbon disulfide	30.0	31.6		ug/L		105	72 - 132	3	23
Carbon tetrachloride	30.0	36.9		ug/L		123	79 - 126	3	20
Chlorobenzene	30.0	33.3		ug/L		111	82 - 116	4	20
Chlorobromomethane	30.0	29.8		ug/L		99	72 - 124	4	20
Chlorodibromomethane	30.0	38.3	J	ug/L		128	73 - 125	4	20
Chloroethane	30.0	38.7		ug/L		129	47 - 160	21	35
Chloroform	30.0	31.5		ug/L		105	81 - 120	5	20
Chloromethane	30.0	31.3		ug/L		104	61 - 136	19	20
cis-1,2-Dichloroethene	30.0	30.1		ug/L		100	75 - 128	7	20
cis-1,3-Dichloropropene	30.0	33.3		ug/L		111	79 - 120	0	20
1,2-Dibromo-3-Chloropropane	30.0	34.0		ug/L		113	57 - 128	4	25
Dibromomethane	30.0	34.6		ug/L		115	80 - 119	2	20
1,2-Dichlorobenzene	30.0	31.2		ug/L		104	83 - 122	1	20
1,4-Dichlorobenzene	30.0	31.9		ug/L		106	82 - 119	1	20
Dichlorobromomethane	30.0	37.7	J	ug/L		126	82 - 120	2	20
1,1-Dichloroethane	30.0	31.3		ug/L		104	78 - 124	7	20
1,2-Dichloroethane	30.0	36.8		ug/L		123	82 - 123	5	20
1,1-Dichloroethene	30.0	33.4		ug/L		111	72 - 133	8	24
1,2-Dichloropropane	30.0	35.2		ug/L		117	78 - 121	3	20
Ethylbenzene	30.0	34.8		ug/L		116	85 - 119	3	20
Ethylene Dibromide	30.0	33.1		ug/L		110	78 - 120	2	20
2-Hexanone	300	341		ug/L		114	54 - 132	1	32
Iodomethane	30.0	29.0		ug/L		97	32 - 169	11	40
Methylene Chloride	30.0	29.4		ug/L		98	75 - 125	6	22
4-Methyl-2-pentanone (MIBK)	300	314		ug/L		105	67 - 134	0	20
Styrene	30.0	33.2		ug/L		111	86 - 121	3	20
1,1,1,2-Tetrachloroethane	30.0	34.2		ug/L		114	80 - 118	2	20
1,1,2,2-Tetrachloroethane	30.0	32.3		ug/L		108	78 - 118	3	20
Tetrachloroethene	30.0	32.6		ug/L		109	81 - 126	2	20
Toluene	30.0	35.2		ug/L		117	82 - 122	5	20
trans-1,4-Dichloro-2-butene	60.0	64.4		ug/L		107	76 - 128	3	26
trans-1,2-Dichloroethene	30.0	30.9		ug/L		103	77 - 128	4	22
trans-1,3-Dichloropropene	30.0	31.4		ug/L		105	76 - 122	4	20
1,1,1-Trichloroethane	30.0	34.5		ug/L		115	85 - 122	2	20
1,1,2-Trichloroethane	30.0	34.4		ug/L		115	76 - 122	3	20
Trichloroethene	30.0	34.3		ug/L		114	82 - 121	5	20
Trichlorofluoromethane	30.0	38.8		ug/L		129	84 - 139	20	20
1,2,3-Trichloropropane	30.0	32.1		ug/L		107	79 - 128	1	20
Vinyl acetate	60.0	57.5		ug/L		96	39 - 185	19	27
Vinyl chloride	30.0	37.0		ug/L		123	70 - 139	20	20
Xylenes, Total	90.0	101		ug/L		112	86 - 123	3	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 640-99930/4
Matrix: Water
Analysis Batch: 99930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*87 - 114*
Dibromofluoromethane	*93*		*81 - 113*
Toluene-d8 (Surr)	*106*		*87 - 112*

Lab Sample ID: 640-42491-15 MS
Matrix: Water
Analysis Batch: 99930

Client Sample ID: MWB-3(I)b
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	2.8	U	400	366		ug/L		91	61 - 131
Acrylonitrile	3.0	U	800	801		ug/L		100	72 - 123
Benzene	0.13	U	40.0	43.1		ug/L		108	74 - 125
Bromoform	0.18	J U	40.0	43.9		ug/L		110	52 - 134
Bromomethane	0.51	U	40.0	40.0		ug/L		100	10 - 182
2-Butanone (MEK)	2.6	U	400	408		ug/L		102	68 - 120
Carbon disulfide	0.23	U	40.0	40.6		ug/L		102	52 - 170
Carbon tetrachloride	0.18	U	40.0	41.9		ug/L		105	73 - 131
Chlorobenzene	0.13	U	40.0	39.1		ug/L		98	80 - 118
Chlorobromomethane	0.21	U	40.0	36.6		ug/L		92	63 - 129
Chlorodibromomethane	0.15	J U	40.0	43.8		ug/L		110	64 - 125
Chloroethane	0.33	U	40.0	52.4		ug/L		131	29 - 148
Chloroform	0.12	U	40.0	39.2		ug/L		98	78 - 123
Chloromethane	0.18	U	40.0	40.3		ug/L		101	51 - 142
cis-1,2-Dichloroethene	0.21	U	40.0	36.8		ug/L		92	64 - 134
cis-1,3-Dichloropropene	0.14	U	40.0	37.9		ug/L		95	67 - 112
1,2-Dibromo-3-Chloropropane	0.31	U	40.0	43.4		ug/L		109	52 - 135
Dibromomethane	0.20	U	40.0	42.7		ug/L		107	78 - 118
1,2-Dichlorobenzene	0.14	U	40.0	40.5		ug/L		101	72 - 130
1,4-Dichlorobenzene	0.20	U	40.0	39.6		ug/L		99	76 - 122
Dichlorobromomethane	0.17	J U	40.0	43.9		ug/L		110	76 - 119
1,1-Dichloroethane	0.20	U	40.0	39.2		ug/L		98	71 - 135
1,2-Dichloroethane	0.15	U	40.0	45.2		ug/L		113	78 - 127
1,1-Dichloroethene	0.23	U	40.0	43.0		ug/L		108	60 - 151
1,2-Dichloropropane	0.17	U	40.0	42.5		ug/L		106	76 - 118
Ethylbenzene	0.16	U	40.0	41.0		ug/L		102	60 - 132
Ethylene Dibromide	0.15	U	40.0	40.4		ug/L		101	74 - 116
2-Hexanone	1.0	U	400	436		ug/L		109	52 - 127
Iodomethane	0.13	U	40.0	28.7		ug/L		72	10 - 165
Methylene Chloride	0.21	U	40.0	36.9		ug/L		92	71 - 130
4-Methyl-2-pentanone (MIBK)	1.5	U	400	391		ug/L		98	67 - 131
Styrene	0.12	U	40.0	40.2		ug/L		101	74 - 124
1,1,1,2-Tetrachloroethane	0.14	U	40.0	38.4		ug/L		96	70 - 119
1,1,2,2-Tetrachloroethane	0.11	U	40.0	40.3		ug/L		101	74 - 124
Tetrachloroethene	0.19	U	40.0	39.0		ug/L		97	71 - 133
Toluene	0.14	U	40.0	42.5		ug/L		106	49 - 146
trans-1,4-Dichloro-2-butene	0.43	U	80.0	65.9		ug/L		82	61 - 125
trans-1,2-Dichloroethene	0.26	U	40.0	38.2		ug/L		96	72 - 135
trans-1,3-Dichloropropene	0.14	U	40.0	34.1		ug/L		85	64 - 110

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 640-42491-15 MS
Matrix: Water
Analysis Batch: 99930

Client Sample ID: MWB-3(I)b
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.16	U	40.0	41.1		ug/L		103	85 - 123
1,1,2-Trichloroethane	0.20	U	40.0	41.0		ug/L		102	72 - 120
Trichloroethene	0.16	U	40.0	42.0		ug/L		105	75 - 122
Trichlorofluoromethane	0.21	U	40.0	55.1		ug/L		138	83 - 147
1,2,3-Trichloropropane	0.23	U	40.0	39.2		ug/L		98	78 - 128
Vinyl acetate	0.38	U	80.0	69.4		ug/L		87	12 - 189
Vinyl chloride	0.22	U	40.0	50.3		ug/L		126	61 - 148
Xylenes, Total	0.44	U	120	119		ug/L		99	61 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*87 - 114*
Dibromofluoromethane	*93*		*81 - 113*
Toluene-d8 (Surr)	*105*		*87 - 112*

Lab Sample ID: 640-42491-15 MSD
Matrix: Water
Analysis Batch: 99930

Client Sample ID: MWB-3(I)b
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	2.8	U	400	333		ug/L		83	61 - 131	10	40
Acrylonitrile	3.0	U	800	714		ug/L		89	72 - 123	11	29
Benzene	0.13	U	40.0	40.0		ug/L		100	74 - 125	7	23
Bromoform	0.18	J U	40.0	39.9		ug/L		100	52 - 134	10	28
Bromomethane	0.51	U	40.0	49.6		ug/L		124	10 - 182	22	56
2-Butanone (MEK)	2.6	U	400	376		ug/L		94	68 - 120	8	28
Carbon disulfide	0.23	U	40.0	37.6		ug/L		94	52 - 170	8	31
Carbon tetrachloride	0.18	U	40.0	40.2		ug/L		101	73 - 131	4	20
Chlorobenzene	0.13	U	40.0	38.9		ug/L		97	80 - 118	0	20
Chlorobromomethane	0.21	U	40.0	34.1		ug/L		85	63 - 129	7	24
Chlorodibromomethane	0.15	J U	40.0	42.5		ug/L		106	64 - 125	3	22
Chloroethane	0.33	U	40.0	52.7		ug/L		132	29 - 148	1	50
Chloroform	0.12	U	40.0	35.3		ug/L		88	78 - 123	10	22
Chloromethane	0.18	U	40.0	40.5		ug/L		101	51 - 142	0	27
cis-1,2-Dichloroethene	0.21	U	40.0	34.7		ug/L		87	64 - 134	6	32
cis-1,3-Dichloropropene	0.14	U	40.0	36.2		ug/L		90	67 - 112	5	23
1,2-Dibromo-3-Chloropropane	0.31	U	40.0	39.1		ug/L		98	52 - 135	11	37
Dibromomethane	0.20	U	40.0	38.8		ug/L		97	78 - 118	9	22
1,2-Dichlorobenzene	0.14	U	40.0	35.5		ug/L		89	72 - 130	13	24
1,4-Dichlorobenzene	0.20	U	40.0	35.8		ug/L		90	76 - 122	10	23
Dichlorobromomethane	0.17	J U	40.0	41.8		ug/L		105	76 - 119	5	24
1,1-Dichloroethane	0.20	U	40.0	36.0		ug/L		90	71 - 135	8	22
1,2-Dichloroethane	0.15	U	40.0	41.4		ug/L		104	78 - 127	9	22
1,1-Dichloroethene	0.23	U	40.0	38.6		ug/L		96	60 - 151	11	31
1,2-Dichloropropane	0.17	U	40.0	39.9		ug/L		100	76 - 118	6	23
Ethylbenzene	0.16	U	40.0	39.7		ug/L		99	60 - 132	3	24
Ethylene Dibromide	0.15	U	40.0	36.6		ug/L		91	74 - 116	10	24
2-Hexanone	1.0	U	400	428		ug/L		107	52 - 127	2	24
Iodomethane	0.13	U	40.0	30.0		ug/L		75	10 - 165	4	60

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 640-42491-15 MSD
Matrix: Water
Analysis Batch: 99930

Client Sample ID: MWB-3(I)b
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	0.21	U	40.0	33.4		ug/L		84	71 - 130	10	33
4-Methyl-2-pentanone (MIBK)	1.5	U	400	365		ug/L		91	67 - 131	7	23
Styrene	0.12	U	40.0	36.9		ug/L		92	74 - 124	9	23
1,1,1,2-Tetrachloroethane	0.14	U	40.0	38.5		ug/L		96	70 - 119	0	23
1,1,2,2-Tetrachloroethane	0.11	U	40.0	39.1		ug/L		98	74 - 124	3	24
Tetrachloroethene	0.19	U	40.0	38.3		ug/L		96	71 - 133	2	22
Toluene	0.14	U	40.0	39.1		ug/L		98	49 - 146	8	21
trans-1,4-Dichloro-2-butene	0.43	U	80.0	60.7		ug/L		76	61 - 125	8	50
trans-1,2-Dichloroethene	0.26	U	40.0	35.3		ug/L		88	72 - 135	8	29
trans-1,3-Dichloropropene	0.14	U	40.0	32.9		ug/L		82	64 - 110	3	26
1,1,1-Trichloroethane	0.16	U	40.0	38.8		ug/L		97	85 - 123	6	22
1,1,2-Trichloroethane	0.20	U	40.0	39.5		ug/L		99	72 - 120	4	22
Trichloroethene	0.16	U	40.0	39.9		ug/L		100	75 - 122	5	20
Trichlorofluoromethane	0.21	U	40.0	51.7		ug/L		129	83 - 147	6	28
1,2,3-Trichloropropane	0.23	U	40.0	37.7		ug/L		94	78 - 128	4	25
Vinyl acetate	0.38	U	80.0	73.6		ug/L		92	12 - 189	6	60
Vinyl chloride	0.22	U	40.0	49.9		ug/L		125	61 - 148	1	27
Xylenes, Total	0.44	U	120	113		ug/L		94	61 - 136	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*87 - 114*
Dibromofluoromethane	*90*		*81 - 113*
Toluene-d8 (Surr)	*103*		*87 - 112*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 640-100022/10-A
Matrix: Water
Analysis Batch: 100056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100022

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0061	U	0.020	0.0061	ug/L		03/10/13 09:15	03/10/13 18:31	1
EDB	0.0065	U	0.020	0.0065	ug/L		03/10/13 09:15	03/10/13 18:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane				*03/10/13 09:15*	*03/10/13 18:31*	*1*

Lab Sample ID: LCS 640-100022/11-A
Matrix: Water
Analysis Batch: 100056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100022

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DBCP			0.250	0.234		ug/L		93	89 - 132		
EDB			0.250	0.243		ug/L		97	85 - 118		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1,2-Tetrachloroethane	*94*		*56 - 144*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 640-100022/12-A
Matrix: Water
Analysis Batch: 100056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100022

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP			0.250	0.254		ug/L		102	89 - 132	8	11
EDB			0.250	0.255		ug/L		102	85 - 118	5	12

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,1,1,2-Tetrachloroethane	*109*		*56 - 144*

Lab Sample ID: MB 640-100116/3-A
Matrix: Water
Analysis Batch: 100207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100116

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0061	U	0.020	0.0061	ug/L		03/13/13 09:36	03/13/13 12:13	1
EDB	0.0065	U	0.020	0.0065	ug/L		03/13/13 09:36	03/13/13 12:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*129*		*56 - 144*	*03/13/13 09:36*	*03/13/13 12:13*	*1*

Lab Sample ID: LCS 640-100116/4-A
Matrix: Water
Analysis Batch: 100207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100116

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DBCP			0.250	0.249		ug/L		99	89 - 132		
EDB			0.250	0.273		ug/L		109	85 - 118		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1,2-Tetrachloroethane	*110*		*56 - 144*

Lab Sample ID: LCSD 640-100116/5-A
Matrix: Water
Analysis Batch: 100207

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100116

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP			0.250	0.250		ug/L		100	89 - 132	0	11
EDB			0.250	0.282		ug/L		113	85 - 118	3	12

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,1,1,2-Tetrachloroethane	*113*		*56 - 144*

Lab Sample ID: 640-42516-2 MS
Matrix: Water
Analysis Batch: 100207

Client Sample ID: MWB-13(S)c
Prep Type: Total/NA
Prep Batch: 100116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
DBCP	0.0057	U	0.500	0.504		ug/L		101	89 - 132		
EDB	0.0061	U	0.500	0.554		ug/L		111	85 - 118		

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 640-42516-2 MS
Matrix: Water
Analysis Batch: 100207

Client Sample ID: MWB-13(S)c
Prep Type: Total/NA
Prep Batch: 100116

Surrogate	MS %Recovery	MS Qualifier	Limits
1,1,1,2-Tetrachloroethane	111		56 - 144

Lab Sample ID: 640-42516-2 MSD
Matrix: Water
Analysis Batch: 100207

Client Sample ID: MWB-13(S)c
Prep Type: Total/NA
Prep Batch: 100116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP	0.0057	U	0.500	0.512		ug/L		102	89 - 132	2	11
EDB	0.0061	U	0.500	0.560		ug/L		112	85 - 118	1	12

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,1,1,2-Tetrachloroethane	113		56 - 144

Lab Sample ID: MB 640-99808/10-A
Matrix: Water
Analysis Batch: 99971

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99808

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0061	U	0.020	0.0061	ug/L		03/06/13 10:00	03/06/13 17:11	1
EDB	0.0065	U	0.020	0.0065	ug/L		03/06/13 10:00	03/06/13 17:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	93		56 - 144	03/06/13 10:00	03/06/13 17:11	1

Lab Sample ID: LCS 640-99808/11-A
Matrix: Water
Analysis Batch: 99971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99808

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DBCP			0.250	0.227		ug/L		91	89 - 132		
EDB			0.250	0.224		ug/L		89	85 - 118		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,1,2-Tetrachloroethane	97		56 - 144

Lab Sample ID: LCSD 640-99808/12-A
Matrix: Water
Analysis Batch: 99971

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99808

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP			0.250	0.251		ug/L		100	89 - 132	10	11
EDB			0.250	0.256	J	ug/L		102	85 - 118	14	12

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,1,1,2-Tetrachloroethane	91		56 - 144

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 640-99982/3-A
Matrix: Water
Analysis Batch: 99992

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99982

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DBCP	0.0061	U	0.020	0.0061	ug/L		03/07/13 19:05	03/08/13 00:50	1
EDB	0.0065	U	0.020	0.0065	ug/L		03/07/13 19:05	03/08/13 00:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*113*		*56 - 144*	*03/07/13 19:05*	*03/08/13 00:50*	*1*

Lab Sample ID: LCS 640-99982/4-A
Matrix: Water
Analysis Batch: 99992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99982

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DBCP			0.250	0.270		ug/L		108	89 - 132		
EDB			0.250	0.287		ug/L		115	85 - 118		

Surrogate			*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1,2-Tetrachloroethane			*133*		*56 - 144*

Lab Sample ID: LCSD 640-99982/5-A
Matrix: Water
Analysis Batch: 99992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99982

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DBCP			0.250	0.260		ug/L		104	89 - 132	4	11
EDB			0.250	0.282		ug/L		113	85 - 118	2	12

Surrogate			*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,1,1,2-Tetrachloroethane			*120*		*56 - 144*

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-174250/1-A
Matrix: Water
Analysis Batch: 174304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174250

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000266	I	0.00050	0.00020	ug/L		03/08/13 09:00	03/08/13 09:35	1

Lab Sample ID: LCS 400-174250/2-A
Matrix: Water
Analysis Batch: 174304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174250

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00500	0.00476		ug/L		95	79 - 121		

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: LCSD 400-174250/3-A
Matrix: Water
Analysis Batch: 174304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174250

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00500	0.00489		ug/L		98	79 - 121	3	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-268613/1-A
Matrix: Water
Analysis Batch: 268834

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 268613

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/07/13 17:08	03/09/13 03:34	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/07/13 17:08	03/09/13 03:34	1
Barium	1.3	U	5.0	1.3	ug/L		03/07/13 17:08	03/09/13 03:34	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/07/13 17:08	03/09/13 03:34	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/07/13 17:08	03/09/13 03:34	1
Chromium	2.5	U	5.0	2.5	ug/L		03/07/13 17:08	03/09/13 03:34	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/07/13 17:08	03/09/13 03:34	1
Copper	1.1	U	5.0	1.1	ug/L		03/07/13 17:08	03/09/13 03:34	1
Iron	33	U	100	33	ug/L		03/07/13 17:08	03/09/13 03:34	1
Lead	0.20	U	1.5	0.20	ug/L		03/07/13 17:08	03/09/13 03:34	1
Nickel	2.0	U	5.0	2.0	ug/L		03/07/13 17:08	03/09/13 03:34	1
Selenium	1.0	U	2.5	1.0	ug/L		03/07/13 17:08	03/09/13 03:34	1
Sodium	0.25	U	0.50	0.25	mg/L		03/07/13 17:08	03/09/13 03:34	1
Silver	0.25	U	1.0	0.25	ug/L		03/07/13 17:08	03/09/13 03:34	1
Thallium	0.50	U	1.0	0.50	ug/L		03/07/13 17:08	03/09/13 03:34	1
Vanadium	3.8	U	10	3.8	ug/L		03/07/13 17:08	03/09/13 03:34	1
Zinc	8.3	U	20	8.3	ug/L		03/07/13 17:08	03/09/13 03:34	1

Lab Sample ID: LCS 680-268613/2-A
Matrix: Water
Analysis Batch: 268834

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 268613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.2		ug/L		90	75 - 125
Arsenic	100	95.9		ug/L		96	75 - 125
Barium	100	106		ug/L		106	75 - 125
Beryllium	50.0	54.9		ug/L		110	75 - 125
Cadmium	50.0	52.5		ug/L		105	75 - 125
Calcium	5.00	5.90		mg/L		118	75 - 125
Chromium	100	112		ug/L		112	75 - 125
Cobalt	50.0	50.7		ug/L		101	75 - 125
Copper	100	116		ug/L		116	75 - 125
Iron	5000	5840		ug/L		117	75 - 125
Lead	50.0	48.2		ug/L		96	75 - 125
Magnesium	5.00	5.76		mg/L		115	75 - 125
Nickel	100	112		ug/L		112	75 - 125
Selenium	100	112		ug/L		112	75 - 125
Sodium	5.00	5.64		mg/L		113	75 - 125
Silver	50.0	52.7		ug/L		105	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-268613/2-A
Matrix: Water
Analysis Batch: 268834

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 268613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	40.0	40.6		ug/L		102	75 - 125
Vanadium	100	110		ug/L		110	75 - 125
Zinc	100	115		ug/L		115	75 - 125

Lab Sample ID: MB 680-268709/1-A
Matrix: Water
Analysis Batch: 268835

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 268709

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:42	03/09/13 21:52	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:42	03/09/13 21:52	1
Barium	1.3	U	5.0	1.3	ug/L		03/08/13 12:42	03/09/13 21:52	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:42	03/09/13 21:52	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:42	03/09/13 21:52	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:42	03/09/13 21:52	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:42	03/09/13 21:52	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:42	03/09/13 21:52	1
Iron	33	U	100	33	ug/L		03/08/13 12:42	03/09/13 21:52	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:42	03/09/13 21:52	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:42	03/09/13 21:52	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:42	03/09/13 21:52	1
Sodium	0.25	U	0.50	0.25	mg/L		03/08/13 12:42	03/09/13 21:52	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:42	03/09/13 21:52	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:42	03/09/13 21:52	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:42	03/09/13 21:52	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:42	03/09/13 21:52	1

Lab Sample ID: LCS 680-268709/2-A
Matrix: Water
Analysis Batch: 268835

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 268709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	56.5		ug/L		113	75 - 125
Arsenic	100	116		ug/L		116	75 - 125
Barium	100	97.8		ug/L		98	75 - 125
Beryllium	50.0	49.0		ug/L		98	75 - 125
Cadmium	50.0	49.5		ug/L		99	75 - 125
Chromium	100	100		ug/L		100	75 - 125
Cobalt	50.0	47.9		ug/L		96	75 - 125
Copper	100	104		ug/L		104	75 - 125
Iron	5000	4700		ug/L		94	75 - 125
Lead	50.0	44.9		ug/L		90	75 - 125
Nickel	100	102		ug/L		102	75 - 125
Selenium	100	102		ug/L		102	75 - 125
Sodium	5.00	4.76		mg/L		95	75 - 125
Silver	50.0	50.2		ug/L		100	75 - 125
Thallium	40.0	37.7		ug/L		94	75 - 125
Vanadium	100	99.9		ug/L		100	75 - 125
Zinc	100	106		ug/L		106	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 640-42516-1 MS
Matrix: Water
Analysis Batch: 268835

Client Sample ID: Field Blank 01
Prep Type: Total Recoverable
Prep Batch: 268709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.3	U	50.0	48.2		ug/L		96	75 - 125
Arsenic	1.3	U	100	96.5		ug/L		97	75 - 125
Barium	1.3	U	100	105		ug/L		105	75 - 125
Beryllium	0.25	U	50.0	53.1		ug/L		106	75 - 125
Cadmium	0.095	U	50.0	53.1		ug/L		106	75 - 125
Chromium	2.5	U	100	108		ug/L		108	75 - 125
Cobalt	0.15	U	50.0	50.8		ug/L		102	75 - 125
Copper	1.1	U	100	113		ug/L		113	75 - 125
Iron	33	U	5000	5300		ug/L		106	75 - 125
Lead	0.20	U	50.0	48.5		ug/L		97	75 - 125
Nickel	2.0	U	100	110		ug/L		110	75 - 125
Selenium	1.0	U	100	106		ug/L		106	75 - 125
Sodium	0.25	U	5.00	5.40		mg/L		108	75 - 125
Silver	0.25	U	50.0	52.3		ug/L		105	75 - 125
Thallium	0.50	U	40.0	40.0		ug/L		100	75 - 125
Vanadium	3.8	U	100	108		ug/L		108	75 - 125
Zinc	8.3	U	100	114		ug/L		114	75 - 125

Lab Sample ID: 640-42516-1 MSD
Matrix: Water
Analysis Batch: 268835

Client Sample ID: Field Blank 01
Prep Type: Total Recoverable
Prep Batch: 268709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.3	U	50.0	38.5	J	ug/L		77	75 - 125	23	20
Arsenic	1.3	U	100	78.4	J	ug/L		78	75 - 125	21	20
Barium	1.3	U	100	97.5		ug/L		97	75 - 125	7	20
Beryllium	0.25	U	50.0	50.2		ug/L		100	75 - 125	6	20
Cadmium	0.095	U	50.0	49.0		ug/L		98	75 - 125	8	20
Chromium	2.5	U	100	98.1		ug/L		98	75 - 125	10	20
Cobalt	0.15	U	50.0	47.1		ug/L		94	75 - 125	7	20
Copper	1.1	U	100	101		ug/L		101	75 - 125	11	20
Iron	33	U	5000	4740		ug/L		95	75 - 125	11	20
Lead	0.20	U	50.0	45.1		ug/L		90	75 - 125	7	20
Nickel	2.0	U	100	99.8		ug/L		100	75 - 125	10	20
Selenium	1.0	U	100	94.1		ug/L		94	75 - 125	12	20
Sodium	0.25	U	5.00	4.90		mg/L		98	75 - 125	10	20
Silver	0.25	U	50.0	49.1		ug/L		98	75 - 125	6	20
Thallium	0.50	U	40.0	37.5		ug/L		94	75 - 125	6	20
Vanadium	3.8	U	100	97.9		ug/L		98	75 - 125	10	20
Zinc	8.3	U	100	106		ug/L		106	75 - 125	7	20

Lab Sample ID: MB 680-268711/1-A
Matrix: Water
Analysis Batch: 268835

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 268711

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 12:45	03/10/13 03:20	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 12:45	03/10/13 03:20	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-268711/1-A
Matrix: Water
Analysis Batch: 268835

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 268711

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3	U	5.0	1.3	ug/L		03/08/13 12:45	03/10/13 03:20	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 12:45	03/10/13 03:20	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 12:45	03/10/13 03:20	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 12:45	03/10/13 03:20	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 12:45	03/10/13 03:20	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 12:45	03/10/13 03:20	1
Iron	33	U	100	33	ug/L		03/08/13 12:45	03/10/13 03:20	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 12:45	03/10/13 03:20	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 12:45	03/10/13 03:20	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 12:45	03/10/13 03:20	1
Sodium	0.25	U	0.50	0.25	mg/L		03/08/13 12:45	03/10/13 03:20	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 12:45	03/10/13 03:20	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 12:45	03/10/13 03:20	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 12:45	03/10/13 03:20	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 12:45	03/10/13 03:20	1

Lab Sample ID: LCS 680-268711/2-A
Matrix: Water
Analysis Batch: 268835

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 268711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	56.5		ug/L		113	75 - 125
Arsenic	100	112		ug/L		112	75 - 125
Barium	100	97.3		ug/L		97	75 - 125
Beryllium	50.0	50.6		ug/L		101	75 - 125
Cadmium	50.0	48.4		ug/L		97	75 - 125
Chromium	100	95.2		ug/L		95	75 - 125
Cobalt	50.0	46.5		ug/L		93	75 - 125
Copper	100	99.4		ug/L		99	75 - 125
Iron	5000	4900		ug/L		98	75 - 125
Lead	50.0	44.5		ug/L		89	75 - 125
Nickel	100	97.3		ug/L		97	75 - 125
Selenium	100	102		ug/L		102	75 - 125
Sodium	5.00	4.65		mg/L		93	75 - 125
Silver	50.0	49.9		ug/L		100	75 - 125
Thallium	40.0	37.2		ug/L		93	75 - 125
Vanadium	100	95.0		ug/L		95	75 - 125
Zinc	100	106		ug/L		106	75 - 125

Lab Sample ID: 640-42491-9 MS
Matrix: Water
Analysis Batch: 268835

Client Sample ID: MWB-27(I)c
Prep Type: Total Recoverable
Prep Batch: 268711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.3	U	50.0	43.0		ug/L		86	75 - 125
Arsenic	1.3	U	100	83.5		ug/L		83	75 - 125
Barium	48		100	144		ug/L		97	75 - 125
Beryllium	0.25	U	50.0	50.9		ug/L		102	75 - 125
Cadmium	0.095	U	50.0	48.1		ug/L		96	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 640-42491-9 MS
Matrix: Water
Analysis Batch: 268835

Client Sample ID: MWB-27(I)c
Prep Type: Total Recoverable
Prep Batch: 268711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	2.5	U	100	97.1		ug/L		97	75 - 125
Cobalt	0.15	U	50.0	46.0		ug/L		92	75 - 125
Copper	1.1	U	100	101		ug/L		101	75 - 125
Iron	430		5000	5230		ug/L		96	75 - 125
Lead	0.29	I	50.0	46.1		ug/L		92	75 - 125
Nickel	2.0	U	100	97.9		ug/L		98	75 - 125
Selenium	1.0	U	100	94.9		ug/L		95	75 - 125
Sodium	3.0		5.00	7.67		mg/L		93	75 - 125
Silver	0.25	U	50.0	48.1		ug/L		96	75 - 125
Thallium	0.50	U	40.0	37.4		ug/L		94	75 - 125
Vanadium	3.8	U	100	96.4		ug/L		96	75 - 125
Zinc	8.3	U	100	107		ug/L		107	75 - 125

Lab Sample ID: 640-42491-9 MSD
Matrix: Water
Analysis Batch: 268835

Client Sample ID: MWB-27(I)c
Prep Type: Total Recoverable
Prep Batch: 268711

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.3	U	50.0	41.1		ug/L		82	75 - 125	5	20
Arsenic	1.3	U	100	83.1		ug/L		83	75 - 125	0	20
Barium	48		100	143		ug/L		95	75 - 125	1	20
Beryllium	0.25	U	50.0	50.6		ug/L		101	75 - 125	1	20
Cadmium	0.095	U	50.0	48.7		ug/L		97	75 - 125	1	20
Chromium	2.5	U	100	96.3		ug/L		96	75 - 125	1	20
Cobalt	0.15	U	50.0	45.8		ug/L		92	75 - 125	0	20
Copper	1.1	U	100	99.6		ug/L		100	75 - 125	1	20
Iron	430		5000	5150		ug/L		94	75 - 125	1	20
Lead	0.29	I	50.0	45.6		ug/L		91	75 - 125	1	20
Nickel	2.0	U	100	98.1		ug/L		98	75 - 125	0	20
Selenium	1.0	U	100	93.5		ug/L		94	75 - 125	1	20
Sodium	3.0		5.00	7.56		mg/L		91	75 - 125	2	20
Silver	0.25	U	50.0	48.7		ug/L		97	75 - 125	1	20
Thallium	0.50	U	40.0	37.1		ug/L		93	75 - 125	1	20
Vanadium	3.8	U	100	95.8		ug/L		96	75 - 125	1	20
Zinc	8.3	U	100	105		ug/L		105	75 - 125	2	20

Lab Sample ID: MB 680-268729/1-A
Matrix: Water
Analysis Batch: 268835

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 268729

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		03/08/13 13:57	03/10/13 06:20	1
Arsenic	1.3	U	2.5	1.3	ug/L		03/08/13 13:57	03/10/13 06:20	1
Barium	1.3	U	5.0	1.3	ug/L		03/08/13 13:57	03/10/13 06:20	1
Beryllium	0.25	U	0.50	0.25	ug/L		03/08/13 13:57	03/10/13 06:20	1
Cadmium	0.095	U	0.50	0.095	ug/L		03/08/13 13:57	03/10/13 06:20	1
Chromium	2.5	U	5.0	2.5	ug/L		03/08/13 13:57	03/10/13 06:20	1
Cobalt	0.15	U	0.50	0.15	ug/L		03/08/13 13:57	03/10/13 06:20	1
Copper	1.1	U	5.0	1.1	ug/L		03/08/13 13:57	03/10/13 06:20	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-268729/1-A
Matrix: Water
Analysis Batch: 268835

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 268729

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	33	U	100	33	ug/L		03/08/13 13:57	03/10/13 06:20	1
Lead	0.20	U	1.5	0.20	ug/L		03/08/13 13:57	03/10/13 06:20	1
Nickel	2.0	U	5.0	2.0	ug/L		03/08/13 13:57	03/10/13 06:20	1
Selenium	1.0	U	2.5	1.0	ug/L		03/08/13 13:57	03/10/13 06:20	1
Sodium	0.25	U	0.50	0.25	mg/L		03/08/13 13:57	03/10/13 06:20	1
Silver	0.25	U	1.0	0.25	ug/L		03/08/13 13:57	03/10/13 06:20	1
Thallium	0.50	U	1.0	0.50	ug/L		03/08/13 13:57	03/10/13 06:20	1
Vanadium	3.8	U	10	3.8	ug/L		03/08/13 13:57	03/10/13 06:20	1
Zinc	8.3	U	20	8.3	ug/L		03/08/13 13:57	03/10/13 06:20	1

Lab Sample ID: LCS 680-268729/2-A
Matrix: Water
Analysis Batch: 268835

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 268729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.6		ug/L		101	75 - 125
Arsenic	100	103		ug/L		103	75 - 125
Barium	100	99.1		ug/L		99	75 - 125
Beryllium	50.0	51.1		ug/L		102	75 - 125
Cadmium	50.0	49.2		ug/L		98	75 - 125
Chromium	100	99.5		ug/L		100	75 - 125
Cobalt	50.0	47.6		ug/L		95	75 - 125
Copper	100	103		ug/L		103	75 - 125
Iron	5000	4800		ug/L		96	75 - 125
Lead	50.0	45.2		ug/L		90	75 - 125
Nickel	100	102		ug/L		102	75 - 125
Selenium	100	99.3		ug/L		99	75 - 125
Sodium	5.00	4.69		mg/L		94	75 - 125
Silver	50.0	49.9		ug/L		100	75 - 125
Thallium	40.0	37.3		ug/L		93	75 - 125
Vanadium	100	99.0		ug/L		99	75 - 125
Zinc	100	105		ug/L		105	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-268201/1-A
Matrix: Water
Analysis Batch: 268528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 268201

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/05/13 10:29	03/06/13 20:18	1

Lab Sample ID: LCS 680-268201/2-A
Matrix: Water
Analysis Batch: 268528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 268201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.44		ug/L		98	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 640-42469-1 MS — **Client Sample ID: MWB-17(I)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268528 — **Prep Batch: 268201**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.091	U	1.00	0.905		ug/L		90	80 - 120

Lab Sample ID: 640-42469-1 MSD — **Client Sample ID: MWB-17(I)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268528 — **Prep Batch: 268201**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.091	U	1.00	1.00		ug/L		100	80 - 120	10	20

Lab Sample ID: MB 680-268230/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268528 — **Prep Batch: 268230**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/05/13 12:16	03/06/13 21:02	1

Lab Sample ID: LCS 680-268230/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268528 — **Prep Batch: 268230**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.53		ug/L		101	80 - 120

Lab Sample ID: MB 680-268380/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268648 — **Prep Batch: 268380**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/06/13 12:24	03/07/13 19:10	1

Lab Sample ID: LCS 680-268380/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268648 — **Prep Batch: 268380**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.62		ug/L		105	80 - 120

Lab Sample ID: 640-42516-8 MS — **Client Sample ID: Field Blank 02**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268648 — **Prep Batch: 268380**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.091	U	1.00	1.01		ug/L		101	80 - 120

Lab Sample ID: 640-42516-8 MSD — **Client Sample ID: Field Blank 02**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268648 — **Prep Batch: 268380**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.091	U	1.00	1.05		ug/L		105	80 - 120	4	20

Lab Sample ID: MB 680-268666/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269127 — **Prep Batch: 268666**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		03/08/13 10:31	03/11/13 15:24	1

Lab Sample ID: LCS 680-268666/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269127 — **Prep Batch: 268666**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.67		ug/L		107	80 - 120

Lab Sample ID: 640-42491-2 MS — **Client Sample ID: MWB-21(S)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269127 — **Prep Batch: 268666**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.091	U	1.00	1.04		ug/L		104	80 - 120

Lab Sample ID: 640-42491-2 MSD — **Client Sample ID: MWB-21(S)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269127 — **Prep Batch: 268666**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.091	U	1.00	1.02		ug/L		102	80 - 120	2	20

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Lab Sample ID: MB 680-269074/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269074

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	3.3	U	3.3	3.3	mg/L			03/09/13 03:34	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-269222/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269222

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			03/11/13 20:56	5

Lab Sample ID: LCS 680-269222/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269222

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.8		mg/L		98	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 680-269222/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269222

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			50.0	48.3		mg/L		97	90 - 110	1	30

Lab Sample ID: 640-42469-8 MS — **Client Sample ID: MWB-22(S)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269222

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10		50.0	59.8		mg/L		99	90 - 110

Lab Sample ID: 640-42469-8 MSD — **Client Sample ID: MWB-22(S)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269222

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10		50.0	60.1		mg/L		100	90 - 110	1	30

Lab Sample ID: 640-42469-11 MS — **Client Sample ID: MWB-12(D)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269222

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4.0	I	50.0	54.9		mg/L		102	90 - 110

Lab Sample ID: 640-42469-11 MSD — **Client Sample ID: MWB-12(D)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269222

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4.0	I	50.0	55.9		mg/L		104	90 - 110	2	30

Lab Sample ID: MB 680-269340/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269340

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			03/12/13 21:37	5

Lab Sample ID: LCS 680-269340/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269340

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			50.0	48.5		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-269340/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269340

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			50.0	49.5		mg/L		99	90 - 110	2	30

Lab Sample ID: 640-42516-13 MS
Matrix: Water
Analysis Batch: 269340

Client Sample ID: MWB-32(S)d
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	39		50.0	84.3		mg/L		91	90 - 110

Lab Sample ID: 640-42516-13 MSD
Matrix: Water
Analysis Batch: 269340

Client Sample ID: MWB-32(S)d
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	39		50.0	90.0		mg/L		102	90 - 110	7	30

Lab Sample ID: MB 680-269349/2
Matrix: Water
Analysis Batch: 269349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			03/12/13 15:35	5

Lab Sample ID: LCS 680-269349/3
Matrix: Water
Analysis Batch: 269349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.3		mg/L		99	90 - 110

Lab Sample ID: LCSD 680-269349/4
Matrix: Water
Analysis Batch: 269349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	49.6		mg/L		99	90 - 110	1	30

Lab Sample ID: 640-42491-7 MS
Matrix: Water
Analysis Batch: 269349

Client Sample ID: MWB-29(D)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.4		50.0	53.7		mg/L		97	90 - 110

Lab Sample ID: 640-42491-7 MSD
Matrix: Water
Analysis Batch: 269349

Client Sample ID: MWB-29(D)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.4		50.0	55.9		mg/L		101	90 - 110	4	30

Lab Sample ID: 640-42491-15 MS
Matrix: Water
Analysis Batch: 269349

Client Sample ID: MWB-3(I)b
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.5		50.0	57.4		mg/L		104	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 640-42491-15 MSD — **Client Sample ID: MWB-3(I)b**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269349

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.5		50.0	54.1		mg/L		97	90 - 110	6	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-268993/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268993

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.026	U	0.050	0.026	mg/L			03/11/13 14:23	1

Lab Sample ID: LCS 680-268993/13 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.00	0.999		mg/L		100	90 - 110

Lab Sample ID: 640-42469-10 MS — **Client Sample ID: MWB-12(1)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.056		1.00	1.40	J	mg/L		134	90 - 110

Lab Sample ID: 640-42469-10 MSD — **Client Sample ID: MWB-12(1)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268993

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.056		1.00	1.38	J	mg/L		133	90 - 110	1	30

Lab Sample ID: 640-42469-1 DU — **Client Sample ID: MWB-17(I)c**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268993

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia (as N)	0.046	I	0.0453	I	mg/L		2	30

Lab Sample ID: MB 680-268994/26 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268994

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.026	U	0.050	0.026	mg/L			03/11/13 17:45	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 680-268994/30
Matrix: Water
Analysis Batch: 268994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.00	1.00		mg/L		100	90 - 110

Lab Sample ID: 640-42491-10 DU
Matrix: Water
Analysis Batch: 268994

Client Sample ID: MWB-27(D)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia (as N)	0.17		0.171		mg/L		2	30

Lab Sample ID: MB 680-269134/35
Matrix: Water
Analysis Batch: 269134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.026	U	0.050	0.026	mg/L			03/12/13 17:46	1

Lab Sample ID: LCS 680-269134/1
Matrix: Water
Analysis Batch: 269134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.00	0.990		mg/L		99	90 - 110

Lab Sample ID: 640-42516-3 MS
Matrix: Water
Analysis Batch: 269134

Client Sample ID: MWB-11(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.099		1.00	1.11		mg/L		101	90 - 110

Lab Sample ID: 640-42516-3 MSD
Matrix: Water
Analysis Batch: 269134

Client Sample ID: MWB-11(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.099		1.00	1.10		mg/L		100	90 - 110	1	30

Lab Sample ID: 640-42516-1 DU
Matrix: Water
Analysis Batch: 269134

Client Sample ID: Field Blank 01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia (as N)	0.048	I	0.0421	I	mg/L		12	30

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 640-99788/19
Matrix: Water
Analysis Batch: 99788

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			02/28/13 13:40	1

Lab Sample ID: LCS 640-99788/21
Matrix: Water
Analysis Batch: 99788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.300	0.307		mg/L		102	90 - 110

Lab Sample ID: LCSD 640-99788/22
Matrix: Water
Analysis Batch: 99788

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.300	0.307		mg/L		102	90 - 110	0	30

Lab Sample ID: 640-42469-8 MS
Matrix: Water
Analysis Batch: 99788

Client Sample ID: MWB-22(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.0054	U	0.300	0.307		mg/L		102	90 - 110

Lab Sample ID: 640-42469-8 DU
Matrix: Water
Analysis Batch: 99788

Client Sample ID: MWB-22(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.0054	U	0.0054	U	mg/L		NC	30

Lab Sample ID: MB 640-99829/19
Matrix: Water
Analysis Batch: 99829

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/01/13 13:56	1

Lab Sample ID: LCS 640-99829/21
Matrix: Water
Analysis Batch: 99829

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.300	0.301		mg/L		100	90 - 110

Lab Sample ID: LCSD 640-99829/22
Matrix: Water
Analysis Batch: 99829

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.300	0.301		mg/L		100	90 - 110	0	30

Lab Sample ID: 640-42491-8 MS
Matrix: Water
Analysis Batch: 99829

Client Sample ID: MWB-27(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	4.4		3.00	7.21		mg/L		95	90 - 110

Lab Sample ID: 640-42491-8 DU
Matrix: Water
Analysis Batch: 99829

Client Sample ID: MWB-27(S)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	4.4		4.33		mg/L		0.6	30

Lab Sample ID: MB 640-99983/19
Matrix: Water
Analysis Batch: 99983

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0054	U	0.010	0.0054	mg/L			03/07/13 15:18	1

Lab Sample ID: LCS 640-99983/21
Matrix: Water
Analysis Batch: 99983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.300	0.298		mg/L		99	90 - 110

Lab Sample ID: LCSD 640-99983/22
Matrix: Water
Analysis Batch: 99983

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.300	0.293		mg/L		98	90 - 110	2	30

Lab Sample ID: 640-42516-7 MS
Matrix: Water
Analysis Batch: 99983

Client Sample ID: MWB-7(D)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.0094	I	0.300	0.246	J	mg/L		79	90 - 110

Lab Sample ID: 640-42516-7 DU
Matrix: Water
Analysis Batch: 99983

Client Sample ID: MWB-7(D)c
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.0094	I	0.0054	U	mg/L		NC	30

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 680-268628/2-A
Matrix: Water
Analysis Batch: 268757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 268628

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.041	U	0.10	0.041	mg/L		03/07/13 18:00	03/08/13 12:10	1

Lab Sample ID: LCS 680-268628/1-A
Matrix: Water
Analysis Batch: 268757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 268628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	2.10		mg/L		105	60 - 140

Method: 4500 P F - Orthophosphate

Lab Sample ID: MB 640-100367/18
Matrix: Water
Analysis Batch: 100367

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	0.0014	U	0.010	0.0014	mg/L			03/02/13 23:30	1

Lab Sample ID: LCS 640-100367/20
Matrix: Water
Analysis Batch: 100367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.0300	0.0281		mg/L		94	90 - 110

Lab Sample ID: LCSD 640-100367/21
Matrix: Water
Analysis Batch: 100367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate as P	0.0300	0.0304		mg/L		101	90 - 110	8	30

Lab Sample ID: 640-42517-1 MS
Matrix: Water
Analysis Batch: 100367

Client Sample ID: SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.0045	I	0.0300	0.0360		mg/L		105	90 - 110

Lab Sample ID: 640-42517-1 MSD
Matrix: Water
Analysis Batch: 100367

Client Sample ID: SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate as P	0.0045	I	0.0300	0.0366		mg/L		107	90 - 110	2	30

Method: 4500 P F - Orthophosphate (Continued)

Lab Sample ID: 640-42517-1 DU
Matrix: Water
Analysis Batch: 100367

Client Sample ID: SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Orthophosphate as P	0.0045	I	0.00545	I	mg/L		20	30

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 660-135034/1
Matrix: Water
Analysis Batch: 135034

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/05/13 08:57	1

Lab Sample ID: LCS 660-135034/2
Matrix: Water
Analysis Batch: 135034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	10000	9910		mg/L		99	80 - 120

Lab Sample ID: MB 660-135053/1
Matrix: Water
Analysis Batch: 135053

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/05/13 12:32	1

Lab Sample ID: LCS 660-135053/2
Matrix: Water
Analysis Batch: 135053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	10000	9890		mg/L		99	80 - 120

Lab Sample ID: MB 660-135093/1
Matrix: Water
Analysis Batch: 135093

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/06/13 09:50	1

Lab Sample ID: LCS 660-135093/2
Matrix: Water
Analysis Batch: 135093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	10000	9840		mg/L		98	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 660-135150/1
Matrix: Water
Analysis Batch: 135150

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/07/13 11:03	1

Lab Sample ID: LCS 660-135150/2
Matrix: Water
Analysis Batch: 135150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	10000	9780		mg/L		98	80 - 120

Lab Sample ID: MB 660-135168/1
Matrix: Water
Analysis Batch: 135168

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			03/07/13 14:19	1

Lab Sample ID: LCS 660-135168/2
Matrix: Water
Analysis Batch: 135168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	10000	9820		mg/L		98	80 - 120

Lab Sample ID: 640-42516-10 DU
Matrix: Water
Analysis Batch: 135168

Client Sample ID: MWB-34(S)d
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	570		487		mg/L		15	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-135073/1
Matrix: Water
Analysis Batch: 135073

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			03/06/13 06:07	1

Lab Sample ID: LCS 660-135073/2
Matrix: Water
Analysis Batch: 135073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	95.6		mg/L		96	80 - 120

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: SCB 660-134986/2 SCB — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 134986

Analyte	SCB Result	SCB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			03/02/13 10:57	1

Lab Sample ID: LCS 660-134986/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 134986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	171		mg/L		86	85 - 115

Method: SM 5220D - COD

Lab Sample ID: MB 680-269070/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269070

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	6.3	U	20	6.3	mg/L			03/12/13 11:43	1

Lab Sample ID: LCS 680-269070/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	100	99.1		mg/L		99	90 - 110

Method: SM 5310C - TOC

Lab Sample ID: MB 640-99913/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 99913

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			03/05/13 16:07	1

Lab Sample ID: LCS 640-99913/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 99913

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.6		mg/L		106	80 - 120

Lab Sample ID: LCSD 640-99913/9 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 99913

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	10.0	10.8		mg/L		108	80 - 120	2	25

GC/MS VOA

Analysis Batch: 99896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-1	MWB-20(S)c	Total/NA	Water	8260C	
640-42491-2	MWB-21(S)c	Total/NA	Water	8260C	
640-42491-3	MWB-32(D)d	Total/NA	Water	8260C	
640-42491-4	MWB-32(I)d	Total/NA	Water	8260C	
640-42491-5	MWB-29(S)c	Total/NA	Water	8260C	
640-42491-6	MWB-29(I)c	Total/NA	Water	8260C	
640-42491-7	MWB-29(D)c	Total/NA	Water	8260C	
640-42491-8	MWB-27(S)c	Total/NA	Water	8260C	
640-42491-9	MWB-27(I)c	Total/NA	Water	8260C	
640-42491-10	MWB-27(D)c	Total/NA	Water	8260C	
640-42491-11	MWB-2(I)b	Total/NA	Water	8260C	
640-42491-12	MWB-3(S)b	Total/NA	Water	8260C	
640-42491-12 MS	MWB-3(S)b	Total/NA	Water	8260C	
640-42491-12 MSD	MWB-3(S)b	Total/NA	Water	8260C	
640-42491-16	Trip Blank 02 42491	Total/NA	Water	8260C	
LCS 640-99896/8	Lab Control Sample	Total/NA	Water	8260C	
LCSD 640-99896/3	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 640-99896/4	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 99918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-1	MWB-17(I)c	Total/NA	Water	8260C	
640-42469-1 MS	MWB-17(I)c	Total/NA	Water	8260C	
640-42469-1 MSD	MWB-17(I)c	Total/NA	Water	8260C	
640-42469-2	MWB-17(D)c	Total/NA	Water	8260C	
640-42469-3	MWB-19(S)c	Total/NA	Water	8260C	
640-42469-4	MWB-19(I)c	Total/NA	Water	8260C	
640-42469-5	MWB-19(D)c	Total/NA	Water	8260C	
640-42469-6	MWB-17(S)c	Total/NA	Water	8260C	
640-42469-7	MWB-13(I)c	Total/NA	Water	8260C	
640-42469-8	MWB-22(S)c	Total/NA	Water	8260C	
640-42469-9	MWB-12(S)c	Total/NA	Water	8260C	
640-42469-10	MWB-12(1)c	Total/NA	Water	8260C	
640-42469-11	MWB-12(D)c	Total/NA	Water	8260C	
640-42469-12	Trip Blank 01 42469	Total/NA	Water	8260C	
LCS 640-99918/19	Lab Control Sample	Total/NA	Water	8260C	
LCSD 640-99918/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 640-99918/5	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 99930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-13	MWB-31(D)b	Total/NA	Water	8260C	
640-42491-14	MWB-2(S)b	Total/NA	Water	8260C	
640-42491-15	MWB-3(I)b	Total/NA	Water	8260C	
640-42491-15 MS	MWB-3(I)b	Total/NA	Water	8260C	
640-42491-15 MSD	MWB-3(I)b	Total/NA	Water	8260C	
640-42516-2	MWB-13(S)c	Total/NA	Water	8260C	
640-42516-3	MWB-11(S)c	Total/NA	Water	8260C	
640-42516-4	MWB-11(1)(R)c	Total/NA	Water	8260C	
640-42516-5	MWB-7(S)c	Total/NA	Water	8260C	
640-42516-6	MWB-7(1)c	Total/NA	Water	8260C	

GC/MS VOA (Continued)

Analysis Batch: 99930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-7	MWB-7(D)c	Total/NA	Water	8260C	
640-42516-9	MWB-33(S)d	Total/NA	Water	8260C	
640-42516-10	MWB-34(S)d	Total/NA	Water	8260C	
640-42516-11	MWB-34(I)d	Total/NA	Water	8260C	
640-42516-12	MWB-34(D)d	Total/NA	Water	8260C	
640-42516-13	MWB-32(S)d	Total/NA	Water	8260C	
640-42516-14	Trip Blank 03 42516	Total/NA	Water	8260C	
LCS 640-99930/2	Lab Control Sample	Total/NA	Water	8260C	
LCSD 640-99930/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 640-99930/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 100048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-1	SW-1	Total/NA	Water	8260C	
640-42517-2	SW-2	Total/NA	Water	8260C	
640-42517-3	SW-3	Total/NA	Water	8260C	
640-42517-4	Trip Blank 04 42517	Total/NA	Water	8260C	
LCS 640-100048/2	Lab Control Sample	Total/NA	Water	8260C	
LCSD 640-100048/3	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 640-100048/4	Method Blank	Total/NA	Water	8260C	

GC Semi VOA

Prep Batch: 99808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-1	MWB-17(I)c	Total/NA	Water	8011	
640-42469-2	MWB-17(D)c	Total/NA	Water	8011	
640-42469-3	MWB-19(S)c	Total/NA	Water	8011	
640-42469-4	MWB-19(I)c	Total/NA	Water	8011	
640-42469-5	MWB-19(D)c	Total/NA	Water	8011	
640-42469-6	MWB-17(S)c	Total/NA	Water	8011	
640-42469-7	MWB-13(I)c	Total/NA	Water	8011	
640-42469-8	MWB-22(S)c	Total/NA	Water	8011	
640-42469-9	MWB-12(S)c	Total/NA	Water	8011	
640-42469-10	MWB-12(1)c	Total/NA	Water	8011	
640-42469-11	MWB-12(D)c	Total/NA	Water	8011	
LCS 640-99808/11-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 640-99808/12-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 640-99808/10-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 99971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-1	MWB-17(I)c	Total/NA	Water	8011	99808
640-42469-2	MWB-17(D)c	Total/NA	Water	8011	99808
640-42469-3	MWB-19(S)c	Total/NA	Water	8011	99808
640-42469-4	MWB-19(I)c	Total/NA	Water	8011	99808
640-42469-5	MWB-19(D)c	Total/NA	Water	8011	99808
640-42469-6	MWB-17(S)c	Total/NA	Water	8011	99808
640-42469-7	MWB-13(I)c	Total/NA	Water	8011	99808
640-42469-8	MWB-22(S)c	Total/NA	Water	8011	99808

GC Semi VOA (Continued)

Analysis Batch: 99971 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-9	MWB-12(S)c	Total/NA	Water	8011	99808
640-42469-10	MWB-12(1)c	Total/NA	Water	8011	99808
640-42469-11	MWB-12(D)c	Total/NA	Water	8011	99808
LCS 640-99808/11-A	Lab Control Sample	Total/NA	Water	8011	99808
LCSD 640-99808/12-A	Lab Control Sample Dup	Total/NA	Water	8011	99808
MB 640-99808/10-A	Method Blank	Total/NA	Water	8011	99808

Prep Batch: 99982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-1	MWB-20(S)c	Total/NA	Water	8011	
640-42491-2	MWB-21(S)c	Total/NA	Water	8011	
640-42491-3	MWB-32(D)d	Total/NA	Water	8011	
640-42491-4	MWB-32(I)d	Total/NA	Water	8011	
640-42491-5	MWB-29(S)c	Total/NA	Water	8011	
640-42491-6	MWB-29(I)c	Total/NA	Water	8011	
640-42491-7	MWB-29(D)c	Total/NA	Water	8011	
LCS 640-99982/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 640-99982/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 640-99982/3-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 99992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-1	MWB-20(S)c	Total/NA	Water	8011	99982
640-42491-2	MWB-21(S)c	Total/NA	Water	8011	99982
640-42491-3	MWB-32(D)d	Total/NA	Water	8011	99982
640-42491-4	MWB-32(I)d	Total/NA	Water	8011	99982
640-42491-5	MWB-29(S)c	Total/NA	Water	8011	99982
640-42491-6	MWB-29(I)c	Total/NA	Water	8011	99982
640-42491-7	MWB-29(D)c	Total/NA	Water	8011	99982
LCS 640-99982/4-A	Lab Control Sample	Total/NA	Water	8011	99982
LCSD 640-99982/5-A	Lab Control Sample Dup	Total/NA	Water	8011	99982
MB 640-99982/3-A	Method Blank	Total/NA	Water	8011	99982

Prep Batch: 100022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-8	MWB-27(S)c	Total/NA	Water	8011	
640-42491-9	MWB-27(I)c	Total/NA	Water	8011	
640-42491-10	MWB-27(D)c	Total/NA	Water	8011	
640-42491-11	MWB-2(I)b	Total/NA	Water	8011	
640-42491-12	MWB-3(S)b	Total/NA	Water	8011	
640-42491-13	MWB-31(D)b	Total/NA	Water	8011	
640-42491-14	MWB-2(S)b	Total/NA	Water	8011	
640-42491-15	MWB-3(I)b	Total/NA	Water	8011	
LCS 640-100022/11-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 640-100022/12-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 640-100022/10-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 100056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-8	MWB-27(S)c	Total/NA	Water	8011	100022
640-42491-9	MWB-27(I)c	Total/NA	Water	8011	100022

GC Semi VOA (Continued)

Analysis Batch: 100056 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-10	MWB-27(D)c	Total/NA	Water	8011	100022
640-42491-11	MWB-2(I)b	Total/NA	Water	8011	100022
640-42491-12	MWB-3(S)b	Total/NA	Water	8011	100022
640-42491-13	MWB-31(D)b	Total/NA	Water	8011	100022
640-42491-14	MWB-2(S)b	Total/NA	Water	8011	100022
640-42491-15	MWB-3(I)b	Total/NA	Water	8011	100022
LCS 640-100022/11-A	Lab Control Sample	Total/NA	Water	8011	100022
LCSD 640-100022/12-A	Lab Control Sample Dup	Total/NA	Water	8011	100022
MB 640-100022/10-A	Method Blank	Total/NA	Water	8011	100022

Prep Batch: 100116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-2	MWB-13(S)c	Total/NA	Water	8011	
640-42516-2 MS	MWB-13(S)c	Total/NA	Water	8011	
640-42516-2 MSD	MWB-13(S)c	Total/NA	Water	8011	
640-42516-3	MWB-11(S)c	Total/NA	Water	8011	
640-42516-4	MWB-11(1)(R)c	Total/NA	Water	8011	
640-42516-5	MWB-7(S)c	Total/NA	Water	8011	
640-42516-6	MWB-7(1)c	Total/NA	Water	8011	
640-42516-7	MWB-7(D)c	Total/NA	Water	8011	
640-42516-9	MWB-33(S)d	Total/NA	Water	8011	
640-42516-10	MWB-34(S)d	Total/NA	Water	8011	
640-42516-11	MWB-34(I)d	Total/NA	Water	8011	
640-42516-12	MWB-34(D)d	Total/NA	Water	8011	
640-42516-13	MWB-32(S)d	Total/NA	Water	8011	
640-42517-1	SW-1	Total/NA	Water	8011	
640-42517-2	SW-2	Total/NA	Water	8011	
640-42517-3	SW-3	Total/NA	Water	8011	
LCS 640-100116/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 640-100116/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 640-100116/3-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 100207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-2	MWB-13(S)c	Total/NA	Water	8011	100116
640-42516-2 MS	MWB-13(S)c	Total/NA	Water	8011	100116
640-42516-2 MSD	MWB-13(S)c	Total/NA	Water	8011	100116
640-42516-3	MWB-11(S)c	Total/NA	Water	8011	100116
640-42516-4	MWB-11(1)(R)c	Total/NA	Water	8011	100116
640-42516-5	MWB-7(S)c	Total/NA	Water	8011	100116
640-42516-6	MWB-7(1)c	Total/NA	Water	8011	100116
640-42516-7	MWB-7(D)c	Total/NA	Water	8011	100116
640-42516-9	MWB-33(S)d	Total/NA	Water	8011	100116
640-42516-10	MWB-34(S)d	Total/NA	Water	8011	100116
640-42516-11	MWB-34(I)d	Total/NA	Water	8011	100116
640-42516-12	MWB-34(D)d	Total/NA	Water	8011	100116
640-42516-13	MWB-32(S)d	Total/NA	Water	8011	100116
640-42517-1	SW-1	Total/NA	Water	8011	100116
640-42517-2	SW-2	Total/NA	Water	8011	100116
640-42517-3	SW-3	Total/NA	Water	8011	100116
LCS 640-100116/4-A	Lab Control Sample	Total/NA	Water	8011	100116

GC Semi VOA (Continued)

Analysis Batch: 100207 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 640-100116/5-A	Lab Control Sample Dup	Total/NA	Water	8011	100116
MB 640-100116/3-A	Method Blank	Total/NA	Water	8011	100116

Metals

Prep Batch: 174250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-1	SW-1	Total/NA	Water	1631E	
640-42517-2	SW-2	Total/NA	Water	1631E	
640-42517-3	SW-3	Total/NA	Water	1631E	
LCS 400-174250/2-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-174250/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	
MB 400-174250/1-A	Method Blank	Total/NA	Water	1631E	

Analysis Batch: 174304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-1	SW-1	Total/NA	Water	1631E	174250
640-42517-2	SW-2	Total/NA	Water	1631E	174250
640-42517-3	SW-3	Total/NA	Water	1631E	174250
LCS 400-174250/2-A	Lab Control Sample	Total/NA	Water	1631E	174250
LCSD 400-174250/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	174250
MB 400-174250/1-A	Method Blank	Total/NA	Water	1631E	174250

Prep Batch: 268201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-1	MWB-17(I)c	Total/NA	Water	7470A	
640-42469-1 MS	MWB-17(I)c	Total/NA	Water	7470A	
640-42469-1 MSD	MWB-17(I)c	Total/NA	Water	7470A	
640-42469-2	MWB-17(D)c	Total/NA	Water	7470A	
640-42469-3	MWB-19(S)c	Total/NA	Water	7470A	
640-42469-4	MWB-19(I)c	Total/NA	Water	7470A	
640-42469-5	MWB-19(D)c	Total/NA	Water	7470A	
640-42469-6	MWB-17(S)c	Total/NA	Water	7470A	
640-42469-7	MWB-13(I)c	Total/NA	Water	7470A	
640-42469-8	MWB-22(S)c	Total/NA	Water	7470A	
640-42469-9	MWB-12(S)c	Total/NA	Water	7470A	
640-42469-10	MWB-12(1)c	Total/NA	Water	7470A	
LCS 680-268201/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-268201/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 268230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-11	MWB-12(D)c	Total/NA	Water	7470A	
LCS 680-268230/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-268230/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 268380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-1	Field Blank 01	Total/NA	Water	7470A	
640-42516-2	MWB-13(S)c	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 268380 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-3	MWB-11(S)c	Total/NA	Water	7470A	
640-42516-4	MWB-11(1)(R)c	Total/NA	Water	7470A	
640-42516-5	MWB-7(S)c	Total/NA	Water	7470A	
640-42516-6	MWB-7(1)c	Total/NA	Water	7470A	
640-42516-7	MWB-7(D)c	Total/NA	Water	7470A	
640-42516-8	Field Blank 02	Total/NA	Water	7470A	
640-42516-8 MS	Field Blank 02	Total/NA	Water	7470A	
640-42516-8 MSD	Field Blank 02	Total/NA	Water	7470A	
640-42516-9	MWB-33(S)d	Total/NA	Water	7470A	
640-42516-10	MWB-34(S)d	Total/NA	Water	7470A	
640-42516-11	MWB-34(I)d	Total/NA	Water	7470A	
640-42516-12	MWB-34(D)d	Total/NA	Water	7470A	
640-42516-13	MWB-32(S)d	Total/NA	Water	7470A	
LCS 680-268380/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-268380/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 268528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-1	MWB-17(I)c	Total/NA	Water	7470A	268201
640-42469-1 MS	MWB-17(I)c	Total/NA	Water	7470A	268201
640-42469-1 MSD	MWB-17(I)c	Total/NA	Water	7470A	268201
640-42469-2	MWB-17(D)c	Total/NA	Water	7470A	268201
640-42469-3	MWB-19(S)c	Total/NA	Water	7470A	268201
640-42469-4	MWB-19(I)c	Total/NA	Water	7470A	268201
640-42469-5	MWB-19(D)c	Total/NA	Water	7470A	268201
640-42469-6	MWB-17(S)c	Total/NA	Water	7470A	268201
640-42469-7	MWB-13(I)c	Total/NA	Water	7470A	268201
640-42469-8	MWB-22(S)c	Total/NA	Water	7470A	268201
640-42469-9	MWB-12(S)c	Total/NA	Water	7470A	268201
640-42469-10	MWB-12(1)c	Total/NA	Water	7470A	268201
640-42469-11	MWB-12(D)c	Total/NA	Water	7470A	268230
LCS 680-268201/2-A	Lab Control Sample	Total/NA	Water	7470A	268201
LCS 680-268230/2-A	Lab Control Sample	Total/NA	Water	7470A	268230
MB 680-268201/1-A	Method Blank	Total/NA	Water	7470A	268201
MB 680-268230/1-A	Method Blank	Total/NA	Water	7470A	268230

Prep Batch: 268613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-6	MWB-7(1)c	Total Recoverable	Water	3005A	
640-42517-1	SW-1	Total Recoverable	Water	3005A	
640-42517-2	SW-2	Total Recoverable	Water	3005A	
640-42517-3	SW-3	Total Recoverable	Water	3005A	
LCS 680-268613/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-268613/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 268648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-1	Field Blank 01	Total/NA	Water	7470A	268380
640-42516-2	MWB-13(S)c	Total/NA	Water	7470A	268380
640-42516-3	MWB-11(S)c	Total/NA	Water	7470A	268380
640-42516-4	MWB-11(1)(R)c	Total/NA	Water	7470A	268380

Metals (Continued)

Analysis Batch: 268648 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-5	MWB-7(S)c	Total/NA	Water	7470A	268380
640-42516-6	MWB-7(1)c	Total/NA	Water	7470A	268380
640-42516-7	MWB-7(D)c	Total/NA	Water	7470A	268380
640-42516-8	Field Blank 02	Total/NA	Water	7470A	268380
640-42516-8 MS	Field Blank 02	Total/NA	Water	7470A	268380
640-42516-8 MSD	Field Blank 02	Total/NA	Water	7470A	268380
640-42516-9	MWB-33(S)d	Total/NA	Water	7470A	268380
640-42516-10	MWB-34(S)d	Total/NA	Water	7470A	268380
640-42516-11	MWB-34(I)d	Total/NA	Water	7470A	268380
640-42516-12	MWB-34(D)d	Total/NA	Water	7470A	268380
640-42516-13	MWB-32(S)d	Total/NA	Water	7470A	268380
LCS 680-268380/2-A	Lab Control Sample	Total/NA	Water	7470A	268380
MB 680-268380/1-A	Method Blank	Total/NA	Water	7470A	268380

Prep Batch: 268666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-1	MWB-20(S)c	Total/NA	Water	7470A	
640-42491-2	MWB-21(S)c	Total/NA	Water	7470A	
640-42491-2 MS	MWB-21(S)c	Total/NA	Water	7470A	
640-42491-2 MSD	MWB-21(S)c	Total/NA	Water	7470A	
640-42491-3	MWB-32(D)d	Total/NA	Water	7470A	
640-42491-4	MWB-32(I)d	Total/NA	Water	7470A	
640-42491-5	MWB-29(S)c	Total/NA	Water	7470A	
640-42491-6	MWB-29(I)c	Total/NA	Water	7470A	
640-42491-7	MWB-29(D)c	Total/NA	Water	7470A	
640-42491-8	MWB-27(S)c	Total/NA	Water	7470A	
640-42491-9	MWB-27(I)c	Total/NA	Water	7470A	
640-42491-10	MWB-27(D)c	Total/NA	Water	7470A	
640-42491-11	MWB-2(I)b	Total/NA	Water	7470A	
640-42491-12	MWB-3(S)b	Total/NA	Water	7470A	
640-42491-13	MWB-31(D)b	Total/NA	Water	7470A	
640-42491-14	MWB-2(S)b	Total/NA	Water	7470A	
640-42491-15	MWB-3(I)b	Total/NA	Water	7470A	
LCS 680-268666/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-268666/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 268709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-1	Field Blank 01	Total Recoverable	Water	3005A	
640-42516-1 MS	Field Blank 01	Total Recoverable	Water	3005A	
640-42516-1 MSD	Field Blank 01	Total Recoverable	Water	3005A	
640-42516-2	MWB-13(S)c	Total Recoverable	Water	3005A	
640-42516-3	MWB-11(S)c	Total Recoverable	Water	3005A	
640-42516-4	MWB-11(1)(R)c	Total Recoverable	Water	3005A	
640-42516-5	MWB-7(S)c	Total Recoverable	Water	3005A	
640-42516-7	MWB-7(D)c	Total Recoverable	Water	3005A	
640-42516-8	Field Blank 02	Total Recoverable	Water	3005A	
640-42516-9	MWB-33(S)d	Total Recoverable	Water	3005A	
640-42516-10	MWB-34(S)d	Total Recoverable	Water	3005A	
640-42516-11	MWB-34(I)d	Total Recoverable	Water	3005A	
640-42516-12	MWB-34(D)d	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 268709 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-13	MWB-32(S)d	Total Recoverable	Water	3005A	
LCS 680-268709/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-268709/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 268711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-1	MWB-20(S)c	Total Recoverable	Water	3005A	
640-42491-2	MWB-21(S)c	Total Recoverable	Water	3005A	
640-42491-3	MWB-32(D)d	Total Recoverable	Water	3005A	
640-42491-4	MWB-32(I)d	Total Recoverable	Water	3005A	
640-42491-5	MWB-29(S)c	Total Recoverable	Water	3005A	
640-42491-6	MWB-29(I)c	Total Recoverable	Water	3005A	
640-42491-7	MWB-29(D)c	Total Recoverable	Water	3005A	
640-42491-8	MWB-27(S)c	Total Recoverable	Water	3005A	
640-42491-9	MWB-27(I)c	Total Recoverable	Water	3005A	
640-42491-9 MS	MWB-27(I)c	Total Recoverable	Water	3005A	
640-42491-9 MSD	MWB-27(I)c	Total Recoverable	Water	3005A	
640-42491-10	MWB-27(D)c	Total Recoverable	Water	3005A	
640-42491-11	MWB-2(I)b	Total Recoverable	Water	3005A	
640-42491-12	MWB-3(S)b	Total Recoverable	Water	3005A	
640-42491-13	MWB-31(D)b	Total Recoverable	Water	3005A	
640-42491-14	MWB-2(S)b	Total Recoverable	Water	3005A	
640-42491-15	MWB-3(I)b	Total Recoverable	Water	3005A	
LCS 680-268711/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-268711/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 268729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-1	MWB-17(I)c	Total Recoverable	Water	3005A	
640-42469-2	MWB-17(D)c	Total Recoverable	Water	3005A	
640-42469-3	MWB-19(S)c	Total Recoverable	Water	3005A	
640-42469-4	MWB-19(I)c	Total Recoverable	Water	3005A	
640-42469-5	MWB-19(D)c	Total Recoverable	Water	3005A	
640-42469-6	MWB-17(S)c	Total Recoverable	Water	3005A	
640-42469-7	MWB-13(I)c	Total Recoverable	Water	3005A	
640-42469-8	MWB-22(S)c	Total Recoverable	Water	3005A	
640-42469-9	MWB-12(S)c	Total Recoverable	Water	3005A	
640-42469-10	MWB-12(1)c	Total Recoverable	Water	3005A	
640-42469-11	MWB-12(D)c	Total Recoverable	Water	3005A	
LCS 680-268729/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-268729/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 268834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-6	MWB-7(1)c	Total Recoverable	Water	6020	268613
640-42517-1	SW-1	Total Recoverable	Water	6020	268613
640-42517-2	SW-2	Total Recoverable	Water	6020	268613
640-42517-3	SW-3	Total Recoverable	Water	6020	268613
LCS 680-268613/2-A	Lab Control Sample	Total Recoverable	Water	6020	268613
MB 680-268613/1-A	Method Blank	Total Recoverable	Water	6020	268613

Metals (Continued)

Analysis Batch: 268835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-1	MWB-17(I)c	Total Recoverable	Water	6020	268729
640-42469-2	MWB-17(D)c	Total Recoverable	Water	6020	268729
640-42469-3	MWB-19(S)c	Total Recoverable	Water	6020	268729
640-42469-4	MWB-19(I)c	Total Recoverable	Water	6020	268729
640-42469-5	MWB-19(D)c	Total Recoverable	Water	6020	268729
640-42469-6	MWB-17(S)c	Total Recoverable	Water	6020	268729
640-42469-7	MWB-13(I)c	Total Recoverable	Water	6020	268729
640-42469-8	MWB-22(S)c	Total Recoverable	Water	6020	268729
640-42469-9	MWB-12(S)c	Total Recoverable	Water	6020	268729
640-42469-10	MWB-12(1)c	Total Recoverable	Water	6020	268729
640-42469-11	MWB-12(D)c	Total Recoverable	Water	6020	268729
640-42491-1	MWB-20(S)c	Total Recoverable	Water	6020	268711
640-42491-2	MWB-21(S)c	Total Recoverable	Water	6020	268711
640-42491-3	MWB-32(D)d	Total Recoverable	Water	6020	268711
640-42491-4	MWB-32(I)d	Total Recoverable	Water	6020	268711
640-42491-5	MWB-29(S)c	Total Recoverable	Water	6020	268711
640-42491-6	MWB-29(I)c	Total Recoverable	Water	6020	268711
640-42491-7	MWB-29(D)c	Total Recoverable	Water	6020	268711
640-42491-8	MWB-27(S)c	Total Recoverable	Water	6020	268711
640-42491-9	MWB-27(I)c	Total Recoverable	Water	6020	268711
640-42491-9 MS	MWB-27(I)c	Total Recoverable	Water	6020	268711
640-42491-9 MSD	MWB-27(I)c	Total Recoverable	Water	6020	268711
640-42491-10	MWB-27(D)c	Total Recoverable	Water	6020	268711
640-42491-11	MWB-2(I)b	Total Recoverable	Water	6020	268711
640-42491-12	MWB-3(S)b	Total Recoverable	Water	6020	268711
640-42491-13	MWB-31(D)b	Total Recoverable	Water	6020	268711
640-42491-14	MWB-2(S)b	Total Recoverable	Water	6020	268711
640-42491-15	MWB-3(I)b	Total Recoverable	Water	6020	268711
640-42516-1	Field Blank 01	Total Recoverable	Water	6020	268709
640-42516-1 MS	Field Blank 01	Total Recoverable	Water	6020	268709
640-42516-1 MSD	Field Blank 01	Total Recoverable	Water	6020	268709
640-42516-2	MWB-13(S)c	Total Recoverable	Water	6020	268709
640-42516-3	MWB-11(S)c	Total Recoverable	Water	6020	268709
640-42516-4	MWB-11(1)(R)c	Total Recoverable	Water	6020	268709
640-42516-5	MWB-7(S)c	Total Recoverable	Water	6020	268709
640-42516-7	MWB-7(D)c	Total Recoverable	Water	6020	268709
640-42516-8	Field Blank 02	Total Recoverable	Water	6020	268709
640-42516-9	MWB-33(S)d	Total Recoverable	Water	6020	268709
640-42516-10	MWB-34(S)d	Total Recoverable	Water	6020	268709
640-42516-11	MWB-34(I)d	Total Recoverable	Water	6020	268709
640-42516-12	MWB-34(D)d	Total Recoverable	Water	6020	268709
640-42516-13	MWB-32(S)d	Total Recoverable	Water	6020	268709
LCS 680-268709/2-A	Lab Control Sample	Total Recoverable	Water	6020	268709
LCS 680-268711/2-A	Lab Control Sample	Total Recoverable	Water	6020	268711
LCS 680-268729/2-A	Lab Control Sample	Total Recoverable	Water	6020	268729
MB 680-268709/1-A	Method Blank	Total Recoverable	Water	6020	268709
MB 680-268711/1-A	Method Blank	Total Recoverable	Water	6020	268711
MB 680-268729/1-A	Method Blank	Total Recoverable	Water	6020	268729

Metals (Continued)

Analysis Batch: 269074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-1	SW-1	Total/NA	Water	SM 2340B	
640-42517-2	SW-2	Total/NA	Water	SM 2340B	
640-42517-3	SW-3	Total/NA	Water	SM 2340B	
MB 680-269074/9	Method Blank	Total/NA	Water	SM 2340B	

Analysis Batch: 269127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-1	MWB-20(S)c	Total/NA	Water	7470A	268666
640-42491-2	MWB-21(S)c	Total/NA	Water	7470A	268666
640-42491-2 MS	MWB-21(S)c	Total/NA	Water	7470A	268666
640-42491-2 MSD	MWB-21(S)c	Total/NA	Water	7470A	268666
640-42491-3	MWB-32(D)d	Total/NA	Water	7470A	268666
640-42491-4	MWB-32(I)d	Total/NA	Water	7470A	268666
640-42491-5	MWB-29(S)c	Total/NA	Water	7470A	268666
640-42491-6	MWB-29(I)c	Total/NA	Water	7470A	268666
640-42491-7	MWB-29(D)c	Total/NA	Water	7470A	268666
640-42491-8	MWB-27(S)c	Total/NA	Water	7470A	268666
640-42491-9	MWB-27(I)c	Total/NA	Water	7470A	268666
640-42491-10	MWB-27(D)c	Total/NA	Water	7470A	268666
640-42491-11	MWB-2(I)b	Total/NA	Water	7470A	268666
640-42491-12	MWB-3(S)b	Total/NA	Water	7470A	268666
640-42491-13	MWB-31(D)b	Total/NA	Water	7470A	268666
640-42491-14	MWB-2(S)b	Total/NA	Water	7470A	268666
640-42491-15	MWB-3(I)b	Total/NA	Water	7470A	268666
LCS 680-268666/2-A	Lab Control Sample	Total/NA	Water	7470A	268666
MB 680-268666/1-A	Method Blank	Total/NA	Water	7470A	268666

General Chemistry

Analysis Batch: 99788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-1	MWB-17(I)c	Total/NA	Water	353.2	
640-42469-2	MWB-17(D)c	Total/NA	Water	353.2	
640-42469-3	MWB-19(S)c	Total/NA	Water	353.2	
640-42469-4	MWB-19(I)c	Total/NA	Water	353.2	
640-42469-5	MWB-19(D)c	Total/NA	Water	353.2	
640-42469-6	MWB-17(S)c	Total/NA	Water	353.2	
640-42469-7	MWB-13(I)c	Total/NA	Water	353.2	
640-42469-8	MWB-22(S)c	Total/NA	Water	353.2	
640-42469-8 DU	MWB-22(S)c	Total/NA	Water	353.2	
640-42469-8 MS	MWB-22(S)c	Total/NA	Water	353.2	
640-42469-9	MWB-12(S)c	Total/NA	Water	353.2	
640-42469-10	MWB-12(1)c	Total/NA	Water	353.2	
640-42469-11	MWB-12(D)c	Total/NA	Water	353.2	
LCS 640-99788/21	Lab Control Sample	Total/NA	Water	353.2	
LCSD 640-99788/22	Lab Control Sample Dup	Total/NA	Water	353.2	
MB 640-99788/19	Method Blank	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 99798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-1	MWB-17(I)c	Total/NA	Water	Nitrate by calc	
640-42469-2	MWB-17(D)c	Total/NA	Water	Nitrate by calc	
640-42469-3	MWB-19(S)c	Total/NA	Water	Nitrate by calc	
640-42469-4	MWB-19(I)c	Total/NA	Water	Nitrate by calc	
640-42469-5	MWB-19(D)c	Total/NA	Water	Nitrate by calc	
640-42469-6	MWB-17(S)c	Total/NA	Water	Nitrate by calc	
640-42469-7	MWB-13(I)c	Total/NA	Water	Nitrate by calc	
640-42469-8	MWB-22(S)c	Total/NA	Water	Nitrate by calc	
640-42469-9	MWB-12(S)c	Total/NA	Water	Nitrate by calc	
640-42469-10	MWB-12(1)c	Total/NA	Water	Nitrate by calc	
640-42469-11	MWB-12(D)c	Total/NA	Water	Nitrate by calc	

Analysis Batch: 99828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-1	MWB-20(S)c	Total/NA	Water	Nitrate by calc	
640-42491-2	MWB-21(S)c	Total/NA	Water	Nitrate by calc	
640-42491-3	MWB-32(D)d	Total/NA	Water	Nitrate by calc	
640-42491-4	MWB-32(I)d	Total/NA	Water	Nitrate by calc	
640-42491-5	MWB-29(S)c	Total/NA	Water	Nitrate by calc	
640-42491-6	MWB-29(I)c	Total/NA	Water	Nitrate by calc	
640-42491-7	MWB-29(D)c	Total/NA	Water	Nitrate by calc	
640-42491-8	MWB-27(S)c	Total/NA	Water	Nitrate by calc	
640-42491-9	MWB-27(I)c	Total/NA	Water	Nitrate by calc	
640-42491-10	MWB-27(D)c	Total/NA	Water	Nitrate by calc	
640-42491-11	MWB-2(I)b	Total/NA	Water	Nitrate by calc	
640-42491-12	MWB-3(S)b	Total/NA	Water	Nitrate by calc	
640-42491-13	MWB-31(D)b	Total/NA	Water	Nitrate by calc	
640-42491-14	MWB-2(S)b	Total/NA	Water	Nitrate by calc	
640-42491-15	MWB-3(I)b	Total/NA	Water	Nitrate by calc	

Analysis Batch: 99829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-1	MWB-20(S)c	Total/NA	Water	353.2	
640-42491-2	MWB-21(S)c	Total/NA	Water	353.2	
640-42491-3	MWB-32(D)d	Total/NA	Water	353.2	
640-42491-4	MWB-32(I)d	Total/NA	Water	353.2	
640-42491-5	MWB-29(S)c	Total/NA	Water	353.2	
640-42491-6	MWB-29(I)c	Total/NA	Water	353.2	
640-42491-7	MWB-29(D)c	Total/NA	Water	353.2	
640-42491-8	MWB-27(S)c	Total/NA	Water	353.2	
640-42491-8 DU	MWB-27(S)c	Total/NA	Water	353.2	
640-42491-8 MS	MWB-27(S)c	Total/NA	Water	353.2	
640-42491-9	MWB-27(I)c	Total/NA	Water	353.2	
640-42491-10	MWB-27(D)c	Total/NA	Water	353.2	
640-42491-11	MWB-2(I)b	Total/NA	Water	353.2	
640-42491-12	MWB-3(S)b	Total/NA	Water	353.2	
640-42491-13	MWB-31(D)b	Total/NA	Water	353.2	
640-42491-14	MWB-2(S)b	Total/NA	Water	353.2	
640-42491-15	MWB-3(I)b	Total/NA	Water	353.2	
LCS 640-99829/21	Lab Control Sample	Total/NA	Water	353.2	
LCSD 640-99829/22	Lab Control Sample Dup	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 99829 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 640-99829/19	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 99888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-1	Field Blank 01	Total/NA	Water	Nitrate by calc	
640-42516-2	MWB-13(S)c	Total/NA	Water	Nitrate by calc	
640-42516-3	MWB-11(S)c	Total/NA	Water	Nitrate by calc	
640-42516-4	MWB-11(1)(R)c	Total/NA	Water	Nitrate by calc	
640-42516-5	MWB-7(S)c	Total/NA	Water	Nitrate by calc	
640-42516-6	MWB-7(1)c	Total/NA	Water	Nitrate by calc	
640-42516-7	MWB-7(D)c	Total/NA	Water	Nitrate by calc	
640-42516-8	Field Blank 02	Total/NA	Water	Nitrate by calc	
640-42516-9	MWB-33(S)d	Total/NA	Water	Nitrate by calc	
640-42516-10	MWB-34(S)d	Total/NA	Water	Nitrate by calc	
640-42516-11	MWB-34(I)d	Total/NA	Water	Nitrate by calc	
640-42516-12	MWB-34(D)d	Total/NA	Water	Nitrate by calc	
640-42516-13	MWB-32(S)d	Total/NA	Water	Nitrate by calc	
640-42517-1	SW-1	Total/NA	Water	Nitrate by calc	
640-42517-2	SW-2	Total/NA	Water	Nitrate by calc	
640-42517-3	SW-3	Total/NA	Water	Nitrate by calc	

Analysis Batch: 99913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-1	SW-1	Total/NA	Water	SM 5310C	
640-42517-2	SW-2	Total/NA	Water	SM 5310C	
640-42517-3	SW-3	Total/NA	Water	SM 5310C	
LCS 640-99913/8	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 640-99913/9	Lab Control Sample Dup	Total/NA	Water	SM 5310C	
MB 640-99913/7	Method Blank	Total/NA	Water	SM 5310C	

Analysis Batch: 99983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-1	Field Blank 01	Total/NA	Water	353.2	
640-42516-2	MWB-13(S)c	Total/NA	Water	353.2	
640-42516-3	MWB-11(S)c	Total/NA	Water	353.2	
640-42516-4	MWB-11(1)(R)c	Total/NA	Water	353.2	
640-42516-5	MWB-7(S)c	Total/NA	Water	353.2	
640-42516-6	MWB-7(1)c	Total/NA	Water	353.2	
640-42516-7	MWB-7(D)c	Total/NA	Water	353.2	
640-42516-7 DU	MWB-7(D)c	Total/NA	Water	353.2	
640-42516-7 MS	MWB-7(D)c	Total/NA	Water	353.2	
640-42516-8	Field Blank 02	Total/NA	Water	353.2	
640-42516-9	MWB-33(S)d	Total/NA	Water	353.2	
640-42516-10	MWB-34(S)d	Total/NA	Water	353.2	
640-42516-11	MWB-34(I)d	Total/NA	Water	353.2	
640-42516-12	MWB-34(D)d	Total/NA	Water	353.2	
640-42516-13	MWB-32(S)d	Total/NA	Water	353.2	
640-42517-1	SW-1	Total/NA	Water	353.2	
640-42517-2	SW-2	Total/NA	Water	353.2	
640-42517-3	SW-3	Total/NA	Water	353.2	
LCS 640-99983/21	Lab Control Sample	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 99983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 640-99983/22	Lab Control Sample Dup	Total/NA	Water	353.2	
MB 640-99983/19	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 100184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-1	SW-1	Total/NA	Water	UnionizedNH3	
640-42517-2	SW-2	Total/NA	Water	UnionizedNH3	
640-42517-3	SW-3	Total/NA	Water	UnionizedNH3	

Analysis Batch: 100367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-1	SW-1	Total/NA	Water	4500 P F	
640-42517-1 DU	SW-1	Total/NA	Water	4500 P F	
640-42517-1 MS	SW-1	Total/NA	Water	4500 P F	
640-42517-1 MSD	SW-1	Total/NA	Water	4500 P F	
640-42517-2	SW-2	Total/NA	Water	4500 P F	
640-42517-3	SW-3	Total/NA	Water	4500 P F	
LCS 640-100367/20	Lab Control Sample	Total/NA	Water	4500 P F	
LCSD 640-100367/21	Lab Control Sample Dup	Total/NA	Water	4500 P F	
MB 640-100367/18	Method Blank	Total/NA	Water	4500 P F	

Analysis Batch: 134986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-1	SW-1	Total/NA	Water	SM 5210B	
640-42517-2	SW-2	Total/NA	Water	SM 5210B	
640-42517-3	SW-3	Total/NA	Water	SM 5210B	
LCS 660-134986/3	Lab Control Sample	Total/NA	Water	SM 5210B	
SCB 660-134986/2 SCB	Method Blank	Total/NA	Water	SM 5210B	

Analysis Batch: 135034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-1	MWB-17(I)c	Total/NA	Water	SM 2540C	
640-42469-2	MWB-17(D)c	Total/NA	Water	SM 2540C	
640-42469-3	MWB-19(S)c	Total/NA	Water	SM 2540C	
640-42469-4	MWB-19(I)c	Total/NA	Water	SM 2540C	
640-42469-5	MWB-19(D)c	Total/NA	Water	SM 2540C	
640-42469-6	MWB-17(S)c	Total/NA	Water	SM 2540C	
640-42469-7	MWB-13(I)c	Total/NA	Water	SM 2540C	
640-42469-8	MWB-22(S)c	Total/NA	Water	SM 2540C	
640-42469-9	MWB-12(S)c	Total/NA	Water	SM 2540C	
640-42469-10	MWB-12(1)c	Total/NA	Water	SM 2540C	
640-42469-11	MWB-12(D)c	Total/NA	Water	SM 2540C	
LCS 660-135034/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-135034/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 135053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-1	MWB-20(S)c	Total/NA	Water	SM 2540C	
640-42491-2	MWB-21(S)c	Total/NA	Water	SM 2540C	
640-42491-3	MWB-32(D)d	Total/NA	Water	SM 2540C	
640-42491-4	MWB-32(I)d	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 135053 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-135053/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-135053/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 135073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-1	SW-1	Total/NA	Water	SM 2540D	
640-42517-2	SW-2	Total/NA	Water	SM 2540D	
640-42517-3	SW-3	Total/NA	Water	SM 2540D	
LCS 660-135073/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-135073/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 135093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-5	MWB-29(S)c	Total/NA	Water	SM 2540C	
640-42491-6	MWB-29(I)c	Total/NA	Water	SM 2540C	
640-42491-7	MWB-29(D)c	Total/NA	Water	SM 2540C	
640-42491-8	MWB-27(S)c	Total/NA	Water	SM 2540C	
640-42491-9	MWB-27(I)c	Total/NA	Water	SM 2540C	
640-42491-10	MWB-27(D)c	Total/NA	Water	SM 2540C	
640-42491-11	MWB-2(I)b	Total/NA	Water	SM 2540C	
640-42491-12	MWB-3(S)b	Total/NA	Water	SM 2540C	
640-42491-13	MWB-31(D)b	Total/NA	Water	SM 2540C	
640-42491-14	MWB-2(S)b	Total/NA	Water	SM 2540C	
640-42491-15	MWB-3(I)b	Total/NA	Water	SM 2540C	
640-42516-1	Field Blank 01	Total/NA	Water	SM 2540C	
640-42516-2	MWB-13(S)c	Total/NA	Water	SM 2540C	
640-42516-3	MWB-11(S)c	Total/NA	Water	SM 2540C	
640-42516-4	MWB-11(1)(R)c	Total/NA	Water	SM 2540C	
640-42516-5	MWB-7(S)c	Total/NA	Water	SM 2540C	
LCS 660-135093/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-135093/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 135150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-6	MWB-7(1)c	Total/NA	Water	SM 2540C	
640-42516-7	MWB-7(D)c	Total/NA	Water	SM 2540C	
640-42516-8	Field Blank 02	Total/NA	Water	SM 2540C	
640-42516-9	MWB-33(S)d	Total/NA	Water	SM 2540C	
LCS 660-135150/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-135150/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 135168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-10	MWB-34(S)d	Total/NA	Water	SM 2540C	
640-42516-10 DU	MWB-34(S)d	Total/NA	Water	SM 2540C	
640-42516-11	MWB-34(I)d	Total/NA	Water	SM 2540C	
640-42516-12	MWB-34(D)d	Total/NA	Water	SM 2540C	
640-42516-13	MWB-32(S)d	Total/NA	Water	SM 2540C	
640-42517-1	SW-1	Total/NA	Water	SM 2540C	
640-42517-2	SW-2	Total/NA	Water	SM 2540C	
640-42517-3	SW-3	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 135168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-135168/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-135168/1	Method Blank	Total/NA	Water	SM 2540C	

Prep Batch: 268628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-1	SW-1	Total/NA	Water	Digestion	
640-42517-2	SW-2	Total/NA	Water	Digestion	
640-42517-3	SW-3	Total/NA	Water	Digestion	
LCS 680-268628/1-A	Lab Control Sample	Total/NA	Water	Digestion	
MB 680-268628/2-A	Method Blank	Total/NA	Water	Digestion	

Analysis Batch: 268757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-1	SW-1	Total/NA	Water	365.4	268628
640-42517-2	SW-2	Total/NA	Water	365.4	268628
640-42517-3	SW-3	Total/NA	Water	365.4	268628
LCS 680-268628/1-A	Lab Control Sample	Total/NA	Water	365.4	268628
MB 680-268628/2-A	Method Blank	Total/NA	Water	365.4	268628

Analysis Batch: 268993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-1	MWB-17(I)c	Total/NA	Water	350.1	
640-42469-1 DU	MWB-17(I)c	Total/NA	Water	350.1	
640-42469-2	MWB-17(D)c	Total/NA	Water	350.1	
640-42469-3	MWB-19(S)c	Total/NA	Water	350.1	
640-42469-4	MWB-19(I)c	Total/NA	Water	350.1	
640-42469-5	MWB-19(D)c	Total/NA	Water	350.1	
640-42469-6	MWB-17(S)c	Total/NA	Water	350.1	
640-42469-7	MWB-13(I)c	Total/NA	Water	350.1	
640-42469-8	MWB-22(S)c	Total/NA	Water	350.1	
640-42469-9	MWB-12(S)c	Total/NA	Water	350.1	
640-42469-10	MWB-12(1)c	Total/NA	Water	350.1	
640-42469-10 MS	MWB-12(1)c	Total/NA	Water	350.1	
640-42469-10 MSD	MWB-12(1)c	Total/NA	Water	350.1	
640-42469-11	MWB-12(D)c	Total/NA	Water	350.1	
640-42491-1	MWB-20(S)c	Total/NA	Water	350.1	
640-42491-2	MWB-21(S)c	Total/NA	Water	350.1	
640-42491-3	MWB-32(D)d	Total/NA	Water	350.1	
640-42491-4	MWB-32(I)d	Total/NA	Water	350.1	
640-42491-5	MWB-29(S)c	Total/NA	Water	350.1	
640-42491-6	MWB-29(I)c	Total/NA	Water	350.1	
640-42491-7	MWB-29(D)c	Total/NA	Water	350.1	
640-42491-8	MWB-27(S)c	Total/NA	Water	350.1	
640-42491-9	MWB-27(I)c	Total/NA	Water	350.1	
LCS 680-268993/13	Lab Control Sample	Total/NA	Water	350.1	
MB 680-268993/2	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 268994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-10	MWB-27(D)c	Total/NA	Water	350.1	
640-42491-10 DU	MWB-27(D)c	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 268994 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-11	MWB-2(I)b	Total/NA	Water	350.1	
640-42491-12	MWB-3(S)b	Total/NA	Water	350.1	
640-42491-13	MWB-31(D)b	Total/NA	Water	350.1	
640-42491-14	MWB-2(S)b	Total/NA	Water	350.1	
640-42491-15	MWB-3(I)b	Total/NA	Water	350.1	
LCS 680-268994/30	Lab Control Sample	Total/NA	Water	350.1	
MB 680-268994/26	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 269070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-1	SW-1	Total/NA	Water	SM 5220D	
640-42517-2	SW-2	Total/NA	Water	SM 5220D	
640-42517-3	SW-3	Total/NA	Water	SM 5220D	
LCS 680-269070/4	Lab Control Sample	Total/NA	Water	SM 5220D	
MB 680-269070/3	Method Blank	Total/NA	Water	SM 5220D	

Analysis Batch: 269134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-1	Field Blank 01	Total/NA	Water	350.1	
640-42516-1 DU	Field Blank 01	Total/NA	Water	350.1	
640-42516-2	MWB-13(S)c	Total/NA	Water	350.1	
640-42516-3	MWB-11(S)c	Total/NA	Water	350.1	
640-42516-3 MS	MWB-11(S)c	Total/NA	Water	350.1	
640-42516-3 MSD	MWB-11(S)c	Total/NA	Water	350.1	
640-42516-4	MWB-11(1)(R)c	Total/NA	Water	350.1	
640-42516-5	MWB-7(S)c	Total/NA	Water	350.1	
640-42516-6	MWB-7(1)c	Total/NA	Water	350.1	
640-42516-7	MWB-7(D)c	Total/NA	Water	350.1	
640-42516-8	Field Blank 02	Total/NA	Water	350.1	
640-42516-9	MWB-33(S)d	Total/NA	Water	350.1	
640-42516-10	MWB-34(S)d	Total/NA	Water	350.1	
640-42516-11	MWB-34(I)d	Total/NA	Water	350.1	
640-42516-12	MWB-34(D)d	Total/NA	Water	350.1	
640-42516-13	MWB-32(S)d	Total/NA	Water	350.1	
LCS 680-269134/1	Lab Control Sample	Total/NA	Water	350.1	
MB 680-269134/35	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 269158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-1	SW-1	Total/NA	Water	Total Nitrogen	
640-42517-2	SW-2	Total/NA	Water	Total Nitrogen	
640-42517-3	SW-3	Total/NA	Water	Total Nitrogen	

Analysis Batch: 269222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-1	MWB-17(I)c	Total/NA	Water	300.0	
640-42469-2	MWB-17(D)c	Total/NA	Water	300.0	
640-42469-3	MWB-19(S)c	Total/NA	Water	300.0	
640-42469-4	MWB-19(I)c	Total/NA	Water	300.0	
640-42469-5	MWB-19(D)c	Total/NA	Water	300.0	
640-42469-6	MWB-17(S)c	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 269222 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-7	MWB-13(I)c	Total/NA	Water	300.0	
640-42469-8	MWB-22(S)c	Total/NA	Water	300.0	
640-42469-8 MS	MWB-22(S)c	Total/NA	Water	300.0	
640-42469-8 MSD	MWB-22(S)c	Total/NA	Water	300.0	
640-42469-9	MWB-12(S)c	Total/NA	Water	300.0	
640-42469-10	MWB-12(1)c	Total/NA	Water	300.0	
640-42469-11	MWB-12(D)c	Total/NA	Water	300.0	
640-42469-11 MS	MWB-12(D)c	Total/NA	Water	300.0	
640-42469-11 MSD	MWB-12(D)c	Total/NA	Water	300.0	
LCS 680-269222/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-269222/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-269222/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 269340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42516-1	Field Blank 01	Total/NA	Water	300.0	
640-42516-2	MWB-13(S)c	Total/NA	Water	300.0	
640-42516-3	MWB-11(S)c	Total/NA	Water	300.0	
640-42516-4	MWB-11(1)(R)c	Total/NA	Water	300.0	
640-42516-5	MWB-7(S)c	Total/NA	Water	300.0	
640-42516-6	MWB-7(1)c	Total/NA	Water	300.0	
640-42516-7	MWB-7(D)c	Total/NA	Water	300.0	
640-42516-8	Field Blank 02	Total/NA	Water	300.0	
640-42516-9	MWB-33(S)d	Total/NA	Water	300.0	
640-42516-10	MWB-34(S)d	Total/NA	Water	300.0	
640-42516-11	MWB-34(I)d	Total/NA	Water	300.0	
640-42516-12	MWB-34(D)d	Total/NA	Water	300.0	
640-42516-13	MWB-32(S)d	Total/NA	Water	300.0	
640-42516-13 MS	MWB-32(S)d	Total/NA	Water	300.0	
640-42516-13 MSD	MWB-32(S)d	Total/NA	Water	300.0	
LCS 680-269340/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-269340/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-269340/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 269349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-1	MWB-20(S)c	Total/NA	Water	300.0	
640-42491-2	MWB-21(S)c	Total/NA	Water	300.0	
640-42491-3	MWB-32(D)d	Total/NA	Water	300.0	
640-42491-4	MWB-32(I)d	Total/NA	Water	300.0	
640-42491-5	MWB-29(S)c	Total/NA	Water	300.0	
640-42491-6	MWB-29(I)c	Total/NA	Water	300.0	
640-42491-7	MWB-29(D)c	Total/NA	Water	300.0	
640-42491-7 MS	MWB-29(D)c	Total/NA	Water	300.0	
640-42491-7 MSD	MWB-29(D)c	Total/NA	Water	300.0	
640-42491-8	MWB-27(S)c	Total/NA	Water	300.0	
640-42491-9	MWB-27(I)c	Total/NA	Water	300.0	
640-42491-10	MWB-27(D)c	Total/NA	Water	300.0	
640-42491-11	MWB-2(I)b	Total/NA	Water	300.0	
640-42491-12	MWB-3(S)b	Total/NA	Water	300.0	
640-42491-13	MWB-31(D)b	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 269349 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42491-14	MWB-2(S)b	Total/NA	Water	300.0	
640-42491-15	MWB-3(I)b	Total/NA	Water	300.0	
640-42491-15 MS	MWB-3(I)b	Total/NA	Water	300.0	
640-42491-15 MSD	MWB-3(I)b	Total/NA	Water	300.0	
LCS 680-269349/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-269349/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-269349/2	Method Blank	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 99892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42469-1	MWB-17(I)c	Total/NA	Water	Field Sampling	
640-42469-2	MWB-17(D)c	Total/NA	Water	Field Sampling	
640-42469-3	MWB-19(S)c	Total/NA	Water	Field Sampling	
640-42469-4	MWB-19(I)c	Total/NA	Water	Field Sampling	
640-42469-5	MWB-19(D)c	Total/NA	Water	Field Sampling	
640-42469-6	MWB-17(S)c	Total/NA	Water	Field Sampling	
640-42469-7	MWB-13(I)c	Total/NA	Water	Field Sampling	
640-42469-8	MWB-22(S)c	Total/NA	Water	Field Sampling	
640-42469-9	MWB-12(S)c	Total/NA	Water	Field Sampling	
640-42469-10	MWB-12(1)c	Total/NA	Water	Field Sampling	
640-42469-11	MWB-12(D)c	Total/NA	Water	Field Sampling	
640-42491-1	MWB-20(S)c	Total/NA	Water	Field Sampling	
640-42491-2	MWB-21(S)c	Total/NA	Water	Field Sampling	
640-42491-3	MWB-32(D)d	Total/NA	Water	Field Sampling	
640-42491-4	MWB-32(I)d	Total/NA	Water	Field Sampling	
640-42491-5	MWB-29(S)c	Total/NA	Water	Field Sampling	
640-42491-6	MWB-29(I)c	Total/NA	Water	Field Sampling	
640-42491-7	MWB-29(D)c	Total/NA	Water	Field Sampling	
640-42491-8	MWB-27(S)c	Total/NA	Water	Field Sampling	
640-42491-9	MWB-27(I)c	Total/NA	Water	Field Sampling	
640-42491-10	MWB-27(D)c	Total/NA	Water	Field Sampling	
640-42491-11	MWB-2(I)b	Total/NA	Water	Field Sampling	
640-42491-12	MWB-3(S)b	Total/NA	Water	Field Sampling	
640-42491-13	MWB-31(D)b	Total/NA	Water	Field Sampling	
640-42491-14	MWB-2(S)b	Total/NA	Water	Field Sampling	
640-42491-15	MWB-3(I)b	Total/NA	Water	Field Sampling	
640-42516-2	MWB-13(S)c	Total/NA	Water	Field Sampling	
640-42516-3	MWB-11(S)c	Total/NA	Water	Field Sampling	
640-42516-4	MWB-11(1)(R)c	Total/NA	Water	Field Sampling	
640-42516-5	MWB-7(S)c	Total/NA	Water	Field Sampling	
640-42516-6	MWB-7(1)c	Total/NA	Water	Field Sampling	
640-42516-7	MWB-7(D)c	Total/NA	Water	Field Sampling	
640-42516-9	MWB-33(S)d	Total/NA	Water	Field Sampling	
640-42516-10	MWB-34(S)d	Total/NA	Water	Field Sampling	
640-42516-11	MWB-34(I)d	Total/NA	Water	Field Sampling	
640-42516-12	MWB-34(D)d	Total/NA	Water	Field Sampling	
640-42516-13	MWB-32(S)d	Total/NA	Water	Field Sampling	
640-42517-1	SW-1	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 99892 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42517-2	SW-2	Total/NA	Water	Field Sampling	
640-42517-3	SW-3	Total/NA	Water	Field Sampling	

Client Sample ID: MWB-17(I)c

Lab Sample ID: 640-42469-1

Date Collected: 02/27/13 10:30

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99918	03/04/13 14:05	LAG	TAL TAL
Total/NA	Prep	8011			99808	03/06/13 10:00	AMR	TAL TAL
Total/NA	Analysis	8011		1	99971	03/06/13 18:59	RD	TAL TAL
Total/NA	Prep	7470A			268201	03/05/13 10:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	268528	03/06/13 20:23	BCB	TAL SAV
Total Recoverable	Prep	3005A			268729	03/08/13 13:57	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 07:40	BR	TAL SAV
Total/NA	Analysis	353.2		1	99788	02/28/13 13:59	MJ	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99798	03/01/13 09:20	AJN	TAL TAL
Total/NA	Analysis	SM 2540C		1	135034	03/05/13 08:57	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:33	JE	TAL SAV
Total/NA	Analysis	300.0		5	269222	03/11/13 21:35	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 10:29	SF	TAL TAL

Client Sample ID: MWB-17(D)c

Lab Sample ID: 640-42469-2

Date Collected: 02/27/13 09:56

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99918	03/04/13 14:29	LAG	TAL TAL
Total/NA	Prep	8011			99808	03/06/13 10:00	AMR	TAL TAL
Total/NA	Analysis	8011		1	99971	03/06/13 19:13	RD	TAL TAL
Total/NA	Prep	7470A			268201	03/05/13 10:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	268528	03/06/13 20:35	BCB	TAL SAV
Total Recoverable	Prep	3005A			268729	03/08/13 13:57	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 07:47	BR	TAL SAV
Total/NA	Analysis	353.2		1	99788	02/28/13 14:09	MJ	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99798	03/01/13 09:20	AJN	TAL TAL
Total/NA	Analysis	SM 2540C		1	135034	03/05/13 08:57	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:33	JE	TAL SAV
Total/NA	Analysis	300.0		5	269222	03/11/13 21:49	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 09:55	SF	TAL TAL

Client Sample ID: MWB-19(S)c

Lab Sample ID: 640-42469-3

Date Collected: 02/27/13 09:14

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99918	03/04/13 14:53	LAG	TAL TAL
Total/NA	Prep	8011			99808	03/06/13 10:00	AMR	TAL TAL
Total/NA	Analysis	8011		1	99971	03/06/13 19:27	RD	TAL TAL

Client Sample ID: MWB-19(S)c

Lab Sample ID: 640-42469-3

Date Collected: 02/27/13 09:14

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			268201	03/05/13 10:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	268528	03/06/13 20:37	BCB	TAL SAV
Total Recoverable	Prep	3005A			268729	03/08/13 13:57	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 07:54	BR	TAL SAV
Total/NA	Analysis	353.2		1	99788	02/28/13 14:10	MJ	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99798	03/01/13 09:20	AJN	TAL TAL
Total/NA	Analysis	SM 2540C		1	135034	03/05/13 08:57	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:33	JE	TAL SAV
Total/NA	Analysis	300.0		5	269222	03/11/13 22:02	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 09:13	SF	TAL TAL

Client Sample ID: MWB-19(I)c

Lab Sample ID: 640-42469-4

Date Collected: 02/27/13 08:39

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99918	03/04/13 15:17	LAG	TAL TAL
Total/NA	Prep	8011			99808	03/06/13 10:00	AMR	TAL TAL
Total/NA	Analysis	8011		1	99971	03/06/13 19:40	RD	TAL TAL
Total/NA	Prep	7470A			268201	03/05/13 10:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	268528	03/06/13 20:40	BCB	TAL SAV
Total Recoverable	Prep	3005A			268729	03/08/13 13:57	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 08:00	BR	TAL SAV
Total/NA	Analysis	353.2		1	99788	02/28/13 14:12	MJ	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99798	03/01/13 09:20	AJN	TAL TAL
Total/NA	Analysis	SM 2540C		1	135034	03/05/13 08:57	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:33	JE	TAL SAV
Total/NA	Analysis	300.0		5	269222	03/11/13 22:15	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 08:38	SF	TAL TAL

Client Sample ID: MWB-19(D)c

Lab Sample ID: 640-42469-5

Date Collected: 02/27/13 08:02

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99918	03/04/13 15:41	LAG	TAL TAL
Total/NA	Prep	8011			99808	03/06/13 10:00	AMR	TAL TAL
Total/NA	Analysis	8011		1	99971	03/06/13 19:54	RD	TAL TAL
Total/NA	Prep	7470A			268201	03/05/13 10:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	268528	03/06/13 20:42	BCB	TAL SAV
Total Recoverable	Prep	3005A			268729	03/08/13 13:57	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 08:07	BR	TAL SAV

Client Sample ID: MWB-19(D)c

Lab Sample ID: 640-42469-5

Date Collected: 02/27/13 08:02

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	99788	02/28/13 14:14	MJ	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99798	03/01/13 09:20	AJN	TAL TAL
Total/NA	Analysis	SM 2540C		1	135034	03/05/13 08:57	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:33	JE	TAL SAV
Total/NA	Analysis	300.0		5	269222	03/11/13 22:28	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 08:01	SF	TAL TAL

Client Sample ID: MWB-17(S)c

Lab Sample ID: 640-42469-6

Date Collected: 02/27/13 11:02

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99918	03/04/13 16:05	LAG	TAL TAL
Total/NA	Prep	8011			99808	03/06/13 10:00	AMR	TAL TAL
Total/NA	Analysis	8011		1	99971	03/06/13 20:07	RD	TAL TAL
Total/NA	Prep	7470A			268201	03/05/13 10:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	268528	03/06/13 20:45	BCB	TAL SAV
Total Recoverable	Prep	3005A			268729	03/08/13 13:57	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 08:14	BR	TAL SAV
Total/NA	Analysis	353.2		1	99788	02/28/13 14:20	MJ	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99798	03/01/13 09:20	AJN	TAL TAL
Total/NA	Analysis	SM 2540C		1	135034	03/05/13 08:57	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:33	JE	TAL SAV
Total/NA	Analysis	300.0		5	269222	03/11/13 22:42	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 11:01	SF	TAL TAL

Client Sample ID: MWB-13(I)c

Lab Sample ID: 640-42469-7

Date Collected: 02/27/13 13:52

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99918	03/04/13 16:29	LAG	TAL TAL
Total/NA	Prep	8011			99808	03/06/13 10:00	AMR	TAL TAL
Total/NA	Analysis	8011		1	99971	03/06/13 20:21	RD	TAL TAL
Total/NA	Prep	7470A			268201	03/05/13 10:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	268528	03/06/13 20:47	BCB	TAL SAV
Total Recoverable	Prep	3005A			268729	03/08/13 13:57	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 08:20	BR	TAL SAV
Total/NA	Analysis	353.2		1	99788	02/28/13 14:22	MJ	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99798	03/01/13 09:20	AJN	TAL TAL
Total/NA	Analysis	SM 2540C		1	135034	03/05/13 08:57	TO	TAL TAM

Client Sample ID: MWB-13(I)c

Lab Sample ID: 640-42469-7

Date Collected: 02/27/13 13:52

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	268993	03/11/13 14:33	JE	TAL SAV
Total/NA	Analysis	300.0		5	269222	03/11/13 22:55	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 13:51	SF	TAL TAL

Client Sample ID: MWB-22(S)c

Lab Sample ID: 640-42469-8

Date Collected: 02/27/13 13:20

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99918	03/04/13 16:54	LAG	TAL TAL
Total/NA	Prep	8011			99808	03/06/13 10:00	AMR	TAL TAL
Total/NA	Analysis	8011		1	99971	03/06/13 20:34	RD	TAL TAL
Total/NA	Prep	7470A			268201	03/05/13 10:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	268528	03/06/13 20:50	BCB	TAL SAV
Total Recoverable	Prep	3005A			268729	03/08/13 13:57	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 08:27	BR	TAL SAV
Total/NA	Analysis	353.2		1	99788	02/28/13 14:24	MJ	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99798	03/01/13 09:20	AJN	TAL TAL
Total/NA	Analysis	SM 2540C		1	135034	03/05/13 08:57	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:41	JE	TAL SAV
Total/NA	Analysis	300.0		5	269222	03/11/13 23:08	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 13:19	SF	TAL TAL

Client Sample ID: MWB-12(S)c

Lab Sample ID: 640-42469-9

Date Collected: 02/27/13 12:47

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99918	03/04/13 17:18	LAG	TAL TAL
Total/NA	Prep	8011			99808	03/06/13 10:00	AMR	TAL TAL
Total/NA	Analysis	8011		1	99971	03/06/13 20:48	RD	TAL TAL
Total/NA	Prep	7470A			268201	03/05/13 10:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	268528	03/06/13 20:52	BCB	TAL SAV
Total Recoverable	Prep	3005A			268729	03/08/13 13:57	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 08:34	BR	TAL SAV
Total/NA	Analysis	353.2		1	99788	02/28/13 14:37	MJ	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99798	03/01/13 09:20	AJN	TAL TAL
Total/NA	Analysis	SM 2540C		1	135034	03/05/13 08:57	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:41	JE	TAL SAV
Total/NA	Analysis	300.0		5	269222	03/12/13 00:14	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 12:46	SF	TAL TAL

Client Sample ID: MWB-12(1)c

Lab Sample ID: 640-42469-10

Date Collected: 02/27/13 12:16

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99918	03/04/13 17:43	LAG	TAL TAL
Total/NA	Prep	8011			99808	03/06/13 10:00	AMR	TAL TAL
Total/NA	Analysis	8011		1	99971	03/06/13 21:01	RD	TAL TAL
Total/NA	Prep	7470A			268201	03/05/13 10:29	UU	TAL SAV
Total/NA	Analysis	7470A		1	268528	03/06/13 20:54	BCB	TAL SAV
Total Recoverable	Prep	3005A			268729	03/08/13 13:57	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 08:41	BR	TAL SAV
Total/NA	Analysis	353.2		1	99788	02/28/13 14:39	MJ	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99798	03/01/13 09:20	AJN	TAL TAL
Total/NA	Analysis	SM 2540C		1	135034	03/05/13 08:57	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:23	JE	TAL SAV
Total/NA	Analysis	300.0		5	269222	03/12/13 00:27	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 12:15	SF	TAL TAL

Client Sample ID: MWB-12(D)c

Lab Sample ID: 640-42469-11

Date Collected: 02/27/13 11:43

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99918	03/04/13 18:07	LAG	TAL TAL
Total/NA	Prep	8011			99808	03/06/13 10:00	AMR	TAL TAL
Total/NA	Analysis	8011		1	99971	03/06/13 21:15	RD	TAL TAL
Total/NA	Prep	7470A			268230	03/05/13 12:16	UU	TAL SAV
Total/NA	Analysis	7470A		1	268528	03/06/13 21:31	BCB	TAL SAV
Total Recoverable	Prep	3005A			268729	03/08/13 13:57	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 09:01	BR	TAL SAV
Total/NA	Analysis	353.2		1	99788	02/28/13 14:40	MJ	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99798	03/01/13 09:20	AJN	TAL TAL
Total/NA	Analysis	SM 2540C		1	135034	03/05/13 08:57	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:41	JE	TAL SAV
Total/NA	Analysis	300.0		5	269222	03/12/13 00:41	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 11:42	SF	TAL TAL

Client Sample ID: Trip Blank 01 42469

Lab Sample ID: 640-42469-12

Date Collected: 02/27/13 00:00

Matrix: Water

Date Received: 02/28/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99918	03/04/13 13:40	LAG	TAL TAL

Client Sample ID: MWB-20(S)c

Lab Sample ID: 640-42491-1

Date Collected: 02/27/13 18:19

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99896	03/05/13 15:21	LS	TAL TAL
Total/NA	Prep	8011			99982	03/07/13 19:05	AMR	TAL TAL
Total/NA	Analysis	8011		1	99992	03/08/13 04:11	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 03:33	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 15:29	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99829	03/01/13 14:14	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135053	03/05/13 12:32	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:23	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 16:14	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 18:18	SF	TAL TAL

Client Sample ID: MWB-21(S)c

Lab Sample ID: 640-42491-2

Date Collected: 02/27/13 17:44

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99896	03/05/13 15:43	LS	TAL TAL
Total/NA	Prep	8011			99982	03/07/13 19:05	AMR	TAL TAL
Total/NA	Analysis	8011		1	99992	03/08/13 04:25	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 03:40	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 15:32	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99829	03/01/13 14:24	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135053	03/05/13 12:32	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:23	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 16:28	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 17:43	SF	TAL TAL

Client Sample ID: MWB-32(D)d

Lab Sample ID: 640-42491-3

Date Collected: 02/27/13 17:12

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99896	03/05/13 16:05	LS	TAL TAL
Total/NA	Prep	8011			99982	03/07/13 19:05	AMR	TAL TAL
Total/NA	Analysis	8011		1	99992	03/08/13 04:38	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV

Client Sample ID: MWB-32(D)d

Lab Sample ID: 640-42491-3

Date Collected: 02/27/13 17:12

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		1	268835	03/10/13 03:47	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 15:39	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99829	03/01/13 14:26	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135053	03/05/13 12:32	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:23	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 16:41	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 17:11	SF	TAL TAL

Client Sample ID: MWB-32(I)d

Lab Sample ID: 640-42491-4

Date Collected: 02/27/13 16:23

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99896	03/05/13 15:00	LS	TAL TAL
Total/NA	Prep	8011			99982	03/07/13 19:05	AMR	TAL TAL
Total/NA	Analysis	8011		1	99992	03/08/13 04:51	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 03:53	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 15:42	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99829	03/01/13 14:28	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135053	03/05/13 12:32	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:23	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 16:54	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/27/13 16:22	SF	TAL TAL

Client Sample ID: MWB-29(S)c

Lab Sample ID: 640-42491-5

Date Collected: 02/28/13 10:59

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99896	03/05/13 16:26	LS	TAL TAL
Total/NA	Prep	8011			99982	03/07/13 19:05	AMR	TAL TAL
Total/NA	Analysis	8011		1	99992	03/08/13 05:05	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 04:00	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 15:44	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL

Client Sample ID: MWB-29(S)c

Lab Sample ID: 640-42491-5

Date Collected: 02/28/13 10:59

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	99829	03/01/13 14:29	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:23	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 17:07	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 10:58	SF	TAL TAL

Client Sample ID: MWB-29(I)c

Lab Sample ID: 640-42491-6

Date Collected: 02/28/13 10:26

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99896	03/05/13 16:48	LS	TAL TAL
Total/NA	Prep	8011			99982	03/07/13 19:05	AMR	TAL TAL
Total/NA	Analysis	8011		1	99992	03/08/13 05:18	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 04:07	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 15:52	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99829	03/01/13 14:31	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:23	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 17:21	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 10:25	SF	TAL TAL

Client Sample ID: MWB-29(D)c

Lab Sample ID: 640-42491-7

Date Collected: 02/28/13 09:48

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99896	03/05/13 17:10	LS	TAL TAL
Total/NA	Prep	8011			99982	03/07/13 19:05	AMR	TAL TAL
Total/NA	Analysis	8011		1	99992	03/08/13 05:32	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 04:13	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 15:54	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99829	03/01/13 14:36	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:23	JE	TAL SAV

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-29(D)c

Lab Sample ID: 640-42491-7

Date Collected: 02/28/13 09:48
Matrix: Water
Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	269349	03/12/13 17:34	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 09:47	SF	TAL TAL

Client Sample ID: MWB-27(S)c

Lab Sample ID: 640-42491-8

Date Collected: 02/28/13 09:06
Matrix: Water
Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99896	03/05/13 17:31	LS	TAL TAL
Total/NA	Prep	8011			100022	03/10/13 09:15	RD	TAL TAL
Total/NA	Analysis	8011		1	100056	03/10/13 21:38	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 04:20	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 15:56	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL
Total/NA	Analysis	353.2		10	99829	03/01/13 15:09	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:24	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 18:32	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 09:05	SF	TAL TAL

Client Sample ID: MWB-27(I)c

Lab Sample ID: 640-42491-9

Date Collected: 02/28/13 08:33
Matrix: Water
Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99896	03/05/13 17:53	LS	TAL TAL
Total/NA	Prep	8011			100022	03/10/13 09:15	RD	TAL TAL
Total/NA	Analysis	8011		1	100056	03/10/13 21:51	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 04:40	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 15:59	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99829	03/01/13 14:43	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	268993	03/11/13 14:24	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 19:25	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 08:32	SF	TAL TAL

Client Sample ID: MWB-27(D)c

Lab Sample ID: 640-42491-10

Date Collected: 02/28/13 07:54

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99896	03/05/13 18:15	LS	TAL TAL
Total/NA	Prep	8011			100022	03/10/13 09:15	RD	TAL TAL
Total/NA	Analysis	8011		1	100056	03/10/13 22:05	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 05:13	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 16:01	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99829	03/01/13 14:53	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	268994	03/11/13 17:28	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 19:38	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 07:53	SF	TAL TAL

Client Sample ID: MWB-2(I)b

Lab Sample ID: 640-42491-11

Date Collected: 02/28/13 11:35

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99896	03/05/13 18:36	LS	TAL TAL
Total/NA	Prep	8011			100022	03/10/13 09:15	RD	TAL TAL
Total/NA	Analysis	8011		1	100056	03/10/13 22:18	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 05:20	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 16:04	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99829	03/01/13 14:54	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	268994	03/11/13 17:28	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 19:51	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 11:34	SF	TAL TAL

Client Sample ID: MWB-3(S)b

Lab Sample ID: 640-42491-12

Date Collected: 02/28/13 13:23

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99896	03/05/13 18:58	LS	TAL TAL
Total/NA	Prep	8011			100022	03/10/13 09:15	RD	TAL TAL
Total/NA	Analysis	8011		1	100056	03/10/13 22:32	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV

Client Sample ID: MWB-3(S)b

Lab Sample ID: 640-42491-12

Date Collected: 02/28/13 13:23

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		1	268835	03/10/13 05:27	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 16:06	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99829	03/01/13 14:56	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	268994	03/11/13 17:28	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 20:05	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 13:22	SF	TAL TAL

Client Sample ID: MWB-31(D)b

Lab Sample ID: 640-42491-13

Date Collected: 02/28/13 12:48

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 13:54	LS	TAL TAL
Total/NA	Prep	8011			100022	03/10/13 09:15	RD	TAL TAL
Total/NA	Analysis	8011		1	100056	03/10/13 22:45	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 05:33	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 16:09	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99829	03/01/13 14:58	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	268994	03/11/13 17:37	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 20:18	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 12:47	SF	TAL TAL

Client Sample ID: MWB-2(S)b

Lab Sample ID: 640-42491-14

Date Collected: 02/28/13 12:08

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 14:15	LS	TAL TAL
Total/NA	Prep	8011			100022	03/10/13 09:15	RD	TAL TAL
Total/NA	Analysis	8011		1	100056	03/10/13 22:58	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 05:40	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 16:11	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL

Client Sample ID: MWB-2(S)b

Lab Sample ID: 640-42491-14

Date Collected: 02/28/13 12:08

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	99829	03/01/13 14:59	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	268994	03/11/13 17:37	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 20:31	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 12:07	SF	TAL TAL

Client Sample ID: MWB-3(I)b

Lab Sample ID: 640-42491-15

Date Collected: 02/28/13 14:02

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 14:37	LS	TAL TAL
Total/NA	Prep	8011			100022	03/10/13 09:15	RD	TAL TAL
Total/NA	Analysis	8011		1	100056	03/10/13 23:12	RD	TAL TAL
Total Recoverable	Prep	3005A			268711	03/08/13 12:45	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/10/13 06:00	BR	TAL SAV
Total/NA	Prep	7470A			268666	03/08/13 10:31	UU	TAL SAV
Total/NA	Analysis	7470A		1	269127	03/11/13 16:14	CE	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99828	03/01/13 16:19	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99829	03/01/13 15:04	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	268994	03/11/13 17:28	JE	TAL SAV
Total/NA	Analysis	300.0		5	269349	03/12/13 20:44	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 14:01	SF	TAL TAL

Client Sample ID: Trip Blank 02 42491

Lab Sample ID: 640-42491-16

Date Collected: 02/28/13 00:00

Matrix: Water

Date Received: 03/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99896	03/05/13 11:14	LS	TAL TAL

Client Sample ID: Field Blank 01

Lab Sample ID: 640-42516-1

Date Collected: 02/28/13 18:05

Matrix: Water

Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			268380	03/06/13 12:24	UU	TAL SAV
Total/NA	Analysis	7470A		1	268648	03/07/13 19:15	BCB	TAL SAV
Total Recoverable	Prep	3005A			268709	03/08/13 12:42	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/09/13 22:05	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: Field Blank 01

Lab Sample ID: 640-42516-1

Date Collected: 02/28/13 18:05
Matrix: Water
Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	99983	03/07/13 15:46	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	269134	03/12/13 15:52	JE	TAL SAV
Total/NA	Analysis	300.0		5	269340	03/12/13 23:50	CB	TAL SAV

Client Sample ID: MWB-13(S)c

Lab Sample ID: 640-42516-2

Date Collected: 02/28/13 17:47
Matrix: Water
Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 14:59	LS	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL
Total/NA	Analysis	8011		1	100207	03/13/13 12:53	RD	TAL TAL
Total/NA	Prep	7470A			268380	03/06/13 12:24	UU	TAL SAV
Total/NA	Analysis	7470A		1	268648	03/07/13 19:18	BCB	TAL SAV
Total Recoverable	Prep	3005A			268709	03/08/13 12:42	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/09/13 22:39	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99983	03/07/13 15:48	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	269134	03/12/13 15:52	JE	TAL SAV
Total/NA	Analysis	300.0		5	269340	03/13/13 00:03	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 17:46	SF	TAL TAL

Client Sample ID: MWB-11(S)c

Lab Sample ID: 640-42516-3

Date Collected: 02/28/13 17:20
Matrix: Water
Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 15:20	LS	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL
Total/NA	Analysis	8011		1	100207	03/13/13 13:33	RD	TAL TAL
Total/NA	Prep	7470A			268380	03/06/13 12:24	UU	TAL SAV
Total/NA	Analysis	7470A		1	268648	03/07/13 19:20	BCB	TAL SAV
Total Recoverable	Prep	3005A			268709	03/08/13 12:42	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/09/13 22:45	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99983	03/07/13 15:50	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	269134	03/12/13 15:43	JE	TAL SAV
Total/NA	Analysis	300.0		5	269340	03/13/13 00:16	CB	TAL SAV

Client Sample ID: MWB-11(S)c

Lab Sample ID: 640-42516-3

Date Collected: 02/28/13 17:20

Matrix: Water

Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 17:19	SF	TAL TAL

Client Sample ID: MWB-11(1)(R)c

Lab Sample ID: 640-42516-4

Date Collected: 02/28/13 16:46

Matrix: Water

Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 15:42	LS	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL
Total/NA	Analysis	8011		1	100207	03/13/13 13:47	RD	TAL TAL
Total/NA	Prep	7470A			268380	03/06/13 12:24	UU	TAL SAV
Total/NA	Analysis	7470A		1	268648	03/07/13 19:23	BCB	TAL SAV
Total Recoverable	Prep	3005A			268709	03/08/13 12:42	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/09/13 22:52	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99983	03/07/13 15:51	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	269134	03/12/13 15:53	JE	TAL SAV
Total/NA	Analysis	300.0		5	269340	03/13/13 00:29	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 16:45	SF	TAL TAL

Client Sample ID: MWB-7(S)c

Lab Sample ID: 640-42516-5

Date Collected: 02/28/13 16:12

Matrix: Water

Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 16:03	LS	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL
Total/NA	Analysis	8011		1	100207	03/13/13 14:00	RD	TAL TAL
Total/NA	Prep	7470A			268380	03/06/13 12:24	UU	TAL SAV
Total/NA	Analysis	7470A		1	268648	03/07/13 19:25	BCB	TAL SAV
Total Recoverable	Prep	3005A			268709	03/08/13 12:42	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/09/13 23:12	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99983	03/07/13 15:53	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135093	03/06/13 09:50	TO	TAL TAM
Total/NA	Analysis	350.1		1	269134	03/12/13 15:53	JE	TAL SAV
Total/NA	Analysis	300.0		5	269340	03/13/13 00:43	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 16:11	SF	TAL TAL

Client Sample ID: MWB-7(1)c

Lab Sample ID: 640-42516-6

Date Collected: 02/28/13 15:39

Matrix: Water

Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 16:25	LS	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL
Total/NA	Analysis	8011		1	100207	03/13/13 14:13	RD	TAL TAL
Total/NA	Prep	7470A			268380	03/06/13 12:24	UU	TAL SAV
Total/NA	Analysis	7470A		1	268648	03/07/13 19:27	BCB	TAL SAV
Total Recoverable	Prep	3005A			268613	03/07/13 17:08	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268834	03/09/13 05:40	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99983	03/07/13 15:58	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135150	03/07/13 11:03	TO	TAL TAM
Total/NA	Analysis	350.1		1	269134	03/12/13 15:53	JE	TAL SAV
Total/NA	Analysis	300.0		5	269340	03/13/13 01:22	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 15:38	SF	TAL TAL

Client Sample ID: MWB-7(D)c

Lab Sample ID: 640-42516-7

Date Collected: 02/28/13 15:03

Matrix: Water

Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 16:46	LS	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL
Total/NA	Analysis	8011		1	100207	03/13/13 14:27	RD	TAL TAL
Total/NA	Prep	7470A			268380	03/06/13 12:24	UU	TAL SAV
Total/NA	Analysis	7470A		1	268648	03/07/13 19:30	BCB	TAL SAV
Total Recoverable	Prep	3005A			268709	03/08/13 12:42	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/09/13 23:19	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99983	03/07/13 16:00	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135150	03/07/13 11:03	TO	TAL TAM
Total/NA	Analysis	350.1		1	269134	03/12/13 15:53	JE	TAL SAV
Total/NA	Analysis	300.0		5	269340	03/13/13 01:36	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	02/28/13 15:02	SF	TAL TAL

Client Sample ID: Field Blank 02

Lab Sample ID: 640-42516-8

Date Collected: 03/01/13 10:30

Matrix: Water

Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			268380	03/06/13 12:24	UU	TAL SAV
Total/NA	Analysis	7470A		1	268648	03/07/13 19:32	BCB	TAL SAV
Total Recoverable	Prep	3005A			268709	03/08/13 12:42	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/09/13 23:25	BR	TAL SAV

Client Sample ID: Field Blank 02

Lab Sample ID: 640-42516-8

Date Collected: 03/01/13 10:30

Matrix: Water

Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99983	03/07/13 16:05	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135150	03/07/13 11:03	TO	TAL TAM
Total/NA	Analysis	350.1		1	269134	03/12/13 15:53	JE	TAL SAV
Total/NA	Analysis	300.0		5	269340	03/13/13 01:49	CB	TAL SAV

Client Sample ID: MWB-33(S)d

Lab Sample ID: 640-42516-9

Date Collected: 03/01/13 10:05

Matrix: Water

Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 17:08	LS	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL
Total/NA	Analysis	8011		1	100207	03/13/13 14:40	RD	TAL TAL
Total/NA	Prep	7470A			268380	03/06/13 12:24	UU	TAL SAV
Total/NA	Analysis	7470A		1	268648	03/07/13 19:45	BCB	TAL SAV
Total Recoverable	Prep	3005A			268709	03/08/13 12:42	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/09/13 23:32	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	353.2		5	99983	03/07/13 16:15	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135150	03/07/13 11:03	TO	TAL TAM
Total/NA	Analysis	350.1		1	269134	03/12/13 16:00	JE	TAL SAV
Total/NA	Analysis	300.0		5	269340	03/13/13 02:02	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	03/01/13 10:04	SF	TAL TAL

Client Sample ID: MWB-34(S)d

Lab Sample ID: 640-42516-10

Date Collected: 03/01/13 09:30

Matrix: Water

Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 17:29	LS	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL
Total/NA	Analysis	8011		1	100207	03/13/13 14:54	RD	TAL TAL
Total/NA	Prep	7470A			268380	03/06/13 12:24	UU	TAL SAV
Total/NA	Analysis	7470A		1	268648	03/07/13 19:47	BCB	TAL SAV
Total Recoverable	Prep	3005A			268709	03/08/13 12:42	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/09/13 23:39	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99983	03/07/13 16:16	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135168	03/07/13 14:19	TO	TAL TAM
Total/NA	Analysis	350.1		1	269134	03/12/13 16:00	JE	TAL SAV

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: MWB-34(S)d

Lab Sample ID: 640-42516-10

Date Collected: 03/01/13 09:30
Matrix: Water
Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	269340	03/13/13 02:15	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	03/01/13 09:29	SF	TAL TAL

Client Sample ID: MWB-34(I)d

Lab Sample ID: 640-42516-11

Date Collected: 03/01/13 08:56
Matrix: Water
Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 17:51	LS	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL
Total/NA	Analysis	8011		1	100207	03/13/13 15:08	RD	TAL TAL
Total/NA	Prep	7470A			268380	03/06/13 12:24	UU	TAL SAV
Total/NA	Analysis	7470A		1	268648	03/07/13 19:50	BCB	TAL SAV
Total Recoverable	Prep	3005A			268709	03/08/13 12:42	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/09/13 23:45	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99983	03/07/13 16:18	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135168	03/07/13 14:19	TO	TAL TAM
Total/NA	Analysis	350.1		1	269134	03/12/13 16:00	JE	TAL SAV
Total/NA	Analysis	300.0		5	269340	03/13/13 02:29	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	03/01/13 08:55	SF	TAL TAL

Client Sample ID: MWB-34(D)d

Lab Sample ID: 640-42516-12

Date Collected: 03/01/13 08:19
Matrix: Water
Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 18:12	LS	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL
Total/NA	Analysis	8011		1	100207	03/13/13 15:21	RD	TAL TAL
Total/NA	Prep	7470A			268380	03/06/13 12:24	UU	TAL SAV
Total/NA	Analysis	7470A		1	268648	03/07/13 19:52	BCB	TAL SAV
Total Recoverable	Prep	3005A			268709	03/08/13 12:42	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/09/13 23:52	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99983	03/07/13 16:20	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135168	03/07/13 14:19	TO	TAL TAM
Total/NA	Analysis	350.1		1	269134	03/12/13 15:43	JE	TAL SAV
Total/NA	Analysis	300.0		5	269340	03/13/13 02:42	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	03/01/13 08:18	SF	TAL TAL

Client Sample ID: MWB-32(S)d

Lab Sample ID: 640-42516-13

Date Collected: 03/01/13 11:00

Matrix: Water

Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 18:34	LS	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL
Total/NA	Analysis	8011		1	100207	03/13/13 15:34	RD	TAL TAL
Total/NA	Prep	7470A			268380	03/06/13 12:24	UU	TAL SAV
Total/NA	Analysis	7470A		1	268648	03/07/13 19:55	BCB	TAL SAV
Total Recoverable	Prep	3005A			268709	03/08/13 12:42	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268835	03/09/13 23:59	BR	TAL SAV
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	353.2		1	99983	03/07/13 16:21	MJ	TAL TAL
Total/NA	Analysis	SM 2540C		1	135168	03/07/13 14:19	TO	TAL TAM
Total/NA	Analysis	350.1		1	269134	03/12/13 15:43	JE	TAL SAV
Total/NA	Analysis	300.0		5	269340	03/13/13 02:55	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	03/01/13 10:59	SF	TAL TAL

Client Sample ID: Trip Blank 03 42516

Lab Sample ID: 640-42516-14

Date Collected: 02/28/13 00:00

Matrix: Water

Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	99930	03/06/13 13:32	LS	TAL TAL

Client Sample ID: SW-1

Lab Sample ID: 640-42517-1

Date Collected: 03/01/13 12:30

Matrix: Water

Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	100048	03/06/13 17:32	LAG	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL
Total/NA	Analysis	8011		1	100207	03/13/13 15:48	RD	TAL TAL
Total/NA	Prep	1631E			174250	03/05/13 16:30	VLC	TAL PEN
Total/NA	Analysis	1631E		1	174304	03/08/13 11:17	VLC	TAL PEN
Total Recoverable	Prep	3005A			268613	03/07/13 17:08	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268834	03/09/13 05:47	BR	TAL SAV
Total/NA	Analysis	SM 2340B		1	269074	03/09/13 05:47	CE	TAL SAV
Total/NA	Analysis	UnionizedNH3		1	100184	03/14/13 11:40	TBW	TAL TAL
Total/NA	Analysis	4500 P F		1	100367	03/02/13 23:35	QC	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	SM 5310C		5	99913	03/05/13 18:43	MF	TAL TAL
Total/NA	Analysis	353.2		1	99983	03/07/13 16:26	MJ	TAL TAL
Total/NA	Analysis	SM 5210B		1	134986	03/02/13 12:40	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	135073	03/06/13 06:07	TO	TAL TAM

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: SW-1

Lab Sample ID: 640-42517-1

Date Collected: 03/01/13 12:30
Matrix: Water
Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	135168	03/07/13 14:19	TO	TAL TAM
Total/NA	Prep	Digestion			268628	03/07/13 18:00	AJO	TAL SAV
Total/NA	Analysis	365.4		1	268757	03/08/13 12:12	JR	TAL SAV
Total/NA	Analysis	SM 5220D		1	269070	03/12/13 11:43	TAR	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	269158	03/13/13 09:28	JR	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	03/01/13 12:30	SF	TAL TAL

Client Sample ID: SW-2

Lab Sample ID: 640-42517-2

Date Collected: 03/01/13 11:40
Matrix: Water
Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	100048	03/06/13 17:08	LAG	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL
Total/NA	Analysis	8011		1	100207	03/13/13 16:01	RD	TAL TAL
Total/NA	Prep	1631E			174250	03/05/13 16:30	VLC	TAL PEN
Total/NA	Analysis	1631E		1	174304	03/08/13 11:25	VLC	TAL PEN
Total Recoverable	Prep	3005A			268613	03/07/13 17:08	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268834	03/09/13 05:53	BR	TAL SAV
Total/NA	Analysis	SM 2340B		1	269074	03/09/13 05:53	CE	TAL SAV
Total/NA	Analysis	UnionizedNH3		1	100184	03/14/13 11:40	TBW	TAL TAL
Total/NA	Analysis	4500 P F		1	100367	03/02/13 23:43	QC	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	SM 5310C		1	99913	03/05/13 18:59	MF	TAL TAL
Total/NA	Analysis	353.2		1	99983	03/07/13 16:28	MJ	TAL TAL
Total/NA	Analysis	SM 5210B		1	134986	03/02/13 12:40	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	135073	03/06/13 06:07	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	135168	03/07/13 14:19	TO	TAL TAM
Total/NA	Prep	Digestion			268628	03/07/13 18:00	AJO	TAL SAV
Total/NA	Analysis	365.4		1	268757	03/08/13 12:13	JR	TAL SAV
Total/NA	Analysis	SM 5220D		1	269070	03/12/13 11:43	TAR	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	269158	03/13/13 09:28	JR	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	03/01/13 11:40	SF	TAL TAL

Client Sample ID: SW-3

Lab Sample ID: 640-42517-3

Date Collected: 03/01/13 12:05
Matrix: Water
Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	100048	03/06/13 16:44	LAG	TAL TAL
Total/NA	Prep	8011			100116	03/13/13 09:36	RD	TAL TAL

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Client Sample ID: SW-3

Lab Sample ID: 640-42517-3

Date Collected: 03/01/13 12:05
Matrix: Water
Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8011		1	100207	03/13/13 16:14	RD	TAL TAL
Total/NA	Prep	1631E			174250	03/05/13 16:30	VLC	TAL PEN
Total/NA	Analysis	1631E		1	174304	03/08/13 11:33	VLC	TAL PEN
Total Recoverable	Prep	3005A			268613	03/07/13 17:08	JKL	TAL SAV
Total Recoverable	Analysis	6020		1	268834	03/09/13 06:13	BR	TAL SAV
Total/NA	Analysis	SM 2340B		1	269074	03/09/13 06:13	CE	TAL SAV
Total/NA	Analysis	UnionizedNH3		1	100184	03/14/13 11:40	TBW	TAL TAL
Total/NA	Analysis	4500 P F		1	100367	03/02/13 23:45	QC	TAL TAL
Total/NA	Analysis	Nitrate by calc		1	99888	03/12/13 18:24	AJN	TAL TAL
Total/NA	Analysis	SM 5310C		4	99913	03/05/13 19:11	MF	TAL TAL
Total/NA	Analysis	353.2		5	99983	03/07/13 16:30	MJ	TAL TAL
Total/NA	Analysis	SM 5210B		1	134986	03/02/13 12:40	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	135073	03/06/13 06:07	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	135168	03/07/13 14:19	TO	TAL TAM
Total/NA	Prep	Digestion			268628	03/07/13 18:00	AJO	TAL SAV
Total/NA	Analysis	365.4		1	268757	03/08/13 12:14	JR	TAL SAV
Total/NA	Analysis	SM 5220D		1	269070	03/12/13 11:43	TAR	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	269158	03/13/13 09:28	JR	TAL SAV
Total/NA	Analysis	Field Sampling		1	99892	03/01/13 12:05	SF	TAL TAL

Client Sample ID: Trip Blank 04 42517

Lab Sample ID: 640-42517-4

Date Collected: 03/01/13 00:00
Matrix: Water
Date Received: 03/02/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	100048	03/06/13 15:56	LAG	TAL TAL

Laboratory References:

= Diversified Environmental Laboratories, 3653 Regent Blvd. Suite 509, Jacksonville, FL 32224

ENCO = ENCO-Orlando, 10775 Central Port Drive, Orlando, FL 32824, TEL (407)826-5314

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Certification Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-13
Georgia	State Program	4		06-30-13
Louisiana	NELAP	6	30663	06-30-13
New Jersey	NELAP	2	FL012	06-30-13
Texas	NELAP	6	T104704459-11-2	03-31-13
USDA	Federal		P330-08-00158	08-05-14

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-13
Arizona	State Program	9	AZ0710	01-11-14
Arkansas DEQ	State Program	6	88-0689	09-01-13
Florida	NELAP	4	E81010	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAP	5	200041	10-09-13
Iowa	State Program	7	367	08-01-14
Kansas	NELAP	7	E-10253	10-31-13
Kentucky (UST)	State Program	4	53	07-05-13
Louisiana	NELAP	6	30976	06-30-13
Maryland	State Program	3	233	09-30-13
Massachusetts	State Program	1	M-FL094	06-30-13
Michigan	State Program	5	9912	06-30-13
New Hampshire	NELAP	1	2505	08-16-13
New Jersey	NELAP	2	FL006	06-30-13
North Carolina DENR	State Program	4	314	12-31-13
Oklahoma	State Program	6	9810	08-31-13
Pennsylvania	NELAP	3	68-00467	01-31-14
Rhode Island	State Program	1	LAO00307	12-31-13
South Carolina	State Program	4	96026	06-30-12
Tennessee	State Program	4	TN02907	06-30-13
Texas	NELAP	6	T104704286-12-5	09-30-13
USDA	Federal		P330-10-00407	12-10-13
Virginia	NELAP	3	460166	06-14-13
West Virginia DEP	State Program	3	136	06-30-13

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	03-31-13
A2LA	ISO/IEC 17025		399.01	03-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13

Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	03-31-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

Method Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL TAL
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL TAL
1631E	Mercury, Low Level (CVAFS)	EPA	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL SAV
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
350.1	Nitrogen, Ammonia	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL TAL
365.4	Phosphorus, Total	EPA	TAL SAV
4500 P F	Orthophosphate	SM	TAL TAL
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL TAL
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
SM 5210B	BOD, 5-Day	SM	TAL TAM
SM 5220D	COD	SM	TAL SAV
SM 5310C	TOC	SM	TAL TAL
Total Nitrogen	Nitrogen, Total	EPA	TAL SAV
UnionizedNH3	Ammonia, Unionized	FL-DEP	TAL TAL
Field Sampling	Field Sampling	EPA	TAL TAL
Chlorophyll a (ORL)	SM 10200H Chlorophyll-A	NONE	ENCO
Fecal Coliform	SM 9222D Fecal Coliform by MF	NONE	

Protocol References:

EPA = US Environmental Protection Agency

FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= Diversified Environmental Laboratories, 3653 Regent Blvd. Suite 509, Jacksonville, FL 32224

ENCO = ENCO-Orlando, 10775 Central Port Drive, Orlando, FL 32824, TEL (407)826-5314

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Sample Summary

Client: Golder Associates Inc.
Project/Site: Trail Ridge Landfill

TestAmerica Job ID: 640-42469-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-42469-1	MWB-17(I)c	Water	02/27/13 10:30	02/28/13 08:00
640-42469-2	MWB-17(D)c	Water	02/27/13 09:56	02/28/13 08:00
640-42469-3	MWB-19(S)c	Water	02/27/13 09:14	02/28/13 08:00
640-42469-4	MWB-19(I)c	Water	02/27/13 08:39	02/28/13 08:00
640-42469-5	MWB-19(D)c	Water	02/27/13 08:02	02/28/13 08:00
640-42469-6	MWB-17(S)c	Water	02/27/13 11:02	02/28/13 08:00
640-42469-7	MWB-13(I)c	Water	02/27/13 13:52	02/28/13 08:00
640-42469-8	MWB-22(S)c	Water	02/27/13 13:20	02/28/13 08:00
640-42469-9	MWB-12(S)c	Water	02/27/13 12:47	02/28/13 08:00
640-42469-10	MWB-12(1)c	Water	02/27/13 12:16	02/28/13 08:00
640-42469-11	MWB-12(D)c	Water	02/27/13 11:43	02/28/13 08:00
640-42469-12	Trip Blank 01 42469	Water	02/27/13 00:00	02/28/13 08:00
640-42491-1	MWB-20(S)c	Water	02/27/13 18:19	03/01/13 08:00
640-42491-2	MWB-21(S)c	Water	02/27/13 17:44	03/01/13 08:00
640-42491-3	MWB-32(D)d	Water	02/27/13 17:12	03/01/13 08:00
640-42491-4	MWB-32(I)d	Water	02/27/13 16:23	03/01/13 08:00
640-42491-5	MWB-29(S)c	Water	02/28/13 10:59	03/01/13 08:00
640-42491-6	MWB-29(I)c	Water	02/28/13 10:26	03/01/13 08:00
640-42491-7	MWB-29(D)c	Water	02/28/13 09:48	03/01/13 08:00
640-42491-8	MWB-27(S)c	Water	02/28/13 09:06	03/01/13 08:00
640-42491-9	MWB-27(I)c	Water	02/28/13 08:33	03/01/13 08:00
640-42491-10	MWB-27(D)c	Water	02/28/13 07:54	03/01/13 08:00
640-42491-11	MWB-2(I)b	Water	02/28/13 11:35	03/01/13 08:00
640-42491-12	MWB-3(S)b	Water	02/28/13 13:23	03/01/13 08:00
640-42491-13	MWB-31(D)b	Water	02/28/13 12:48	03/01/13 08:00
640-42491-14	MWB-2(S)b	Water	02/28/13 12:08	03/01/13 08:00
640-42491-15	MWB-3(I)b	Water	02/28/13 14:02	03/01/13 08:00
640-42491-16	Trip Blank 02 42491	Water	02/28/13 00:00	03/01/13 08:00
640-42516-1	Field Blank 01	Water	02/28/13 18:05	03/02/13 16:30
640-42516-2	MWB-13(S)c	Water	02/28/13 17:47	03/02/13 16:30
640-42516-3	MWB-11(S)c	Water	02/28/13 17:20	03/02/13 16:30
640-42516-4	MWB-11(1)(R)c	Water	02/28/13 16:46	03/02/13 16:30
640-42516-5	MWB-7(S)c	Water	02/28/13 16:12	03/02/13 16:30
640-42516-6	MWB-7(1)c	Water	02/28/13 15:39	03/02/13 16:30
640-42516-7	MWB-7(D)c	Water	02/28/13 15:03	03/02/13 16:30
640-42516-8	Field Blank 02	Water	03/01/13 10:30	03/02/13 16:30
640-42516-9	MWB-33(S)d	Water	03/01/13 10:05	03/02/13 16:30
640-42516-10	MWB-34(S)d	Water	03/01/13 09:30	03/02/13 16:30
640-42516-11	MWB-34(I)d	Water	03/01/13 08:56	03/02/13 16:30
640-42516-12	MWB-34(D)d	Water	03/01/13 08:19	03/02/13 16:30
640-42516-13	MWB-32(S)d	Water	03/01/13 11:00	03/02/13 16:30
640-42516-14	Trip Blank 03 42516	Water	02/28/13 00:00	03/02/13 16:30
640-42517-1	SW-1	Water	03/01/13 12:30	03/02/13 16:30
640-42517-2	SW-2	Water	03/01/13 11:40	03/02/13 16:30
640-42517-3	SW-3	Water	03/01/13 12:05	03/02/13 16:30
640-42517-4	Trip Blank 04 42517	Water	03/01/13 00:00	03/02/13 16:30

Diversified Environmental Laboratories, Inc.

Amy Marks
Test America
2846 Industrial Plaza Dr
Tallahassee, FL 32301

March 4, 2013

Re:
DELI Project Number: **130301.02**
Client Project Description: **Trail Ridge Landfill**
Client PO Number:

Dear Ms. Marks:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date/Time Collected	Date/Time Received
23915	SW-1	03/01/13 12:30	03/01/13 13:51
23916	SW-2	03/01/13 11:40	03/01/13 13:51
23917	SW-3	03/01/13 12:05	03/01/13 13:51

If you have any questions or comments concerning this laboratory report, please do not hesitate to contact us.

Sincerely,

Franklin A. Risk, Jr.
Laboratory Director

Enclosures

This laboratory report consists of a cover page, case narrative page and report page. There may be multiple pages of each. The pages are numbered accordingly. The report may also contain chain of custody forms, project log in forms, QA/QC reports and client worksheets if applicable. The results herein relate only to the items tested or to the samples as received by the laboratory. The report shall not be reproduced except in full, without the written approval of the laboratory. All samples will be disposed of within 30 days of receipt, unless a written request to retain the samples longer is received. All samples referenced in this laboratory report are considered to be environmental samples. The case narrative will contain comments and or notes regarding the samples and analyses.

NELAP #E821059

Diversified Environmental Laboratories, Inc.
3653 Regent Boulevard
Suite 509
Jacksonville, FL 32224

Phone 904.807.9625
Fax 904.807.9627
Email info@delilab.com
Website www.delilab.com

Diversified Environmental Laboratories, Inc

Case Narrative

March 4, 2013

Test America
Amy Marks

Re: DELI Project Number: **130301.02**
Client Project Description: **Trail Ridge Landfill**

Enclosed is the case narrative for the above referenced project:

Sample 23915: 3 dilutions were set up (1:2, 1:5, 1:10), 2 dilutions produced colonies but fell outside of the acceptable range. Results were calculated to produce the final reported result.

Sample 23916: 2 dilutions were set up (1:10, 1:20), colony counts were outside of the acceptable range. Results were calculated to produce the final reported result.

Sample 23917: 3 dilutions were set up (1:2, 1:10, 1:20), colony growth on the 1:2 and 1:10 were too numerous to count. Colony counts for the 1:20 were outside of the acceptable range. Results were calculated to produce the final reported result.

Unless otherwise noted and where applicable:
These samples were received at the proper temperature and with the proper preservation. The samples were analyzed as received, unless otherwise noted. All results in the Quality Control section are labeled appropriately. All results meet the requirements of the NELAP standards, unless otherwise noted. Footnotes are given at the end of the report.

NELAP #E821059

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Website www.delilab.com

Diversified Environmental Laboratories, Inc.

Report of Laboratory Analysis

DELI Project Number	Test America
130301.02	Project Description: Trail Ridge Landfill

Report Date: March 4, 2013

DELI Sample Number 23915 | Matrix: Non Potable Water

Sample Designation SW-1 | Date/Time Collected: 03/01/13 12:30

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	32	B	cfu/100mL		1	1		ADC/FAR	03/01/13 16:30

NELAP #E821059

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Website www.delilab.com

Diversified Environmental Laboratories, Inc.

Report of Laboratory Analysis

DELI Project Number	Test America
130301.02	Project Description: Trail Ridge Landfill

Report Date: March 4, 2013

DELI Sample Number	23916	Matrix	Non Potable Water
Sample Designation	SW-2	Date/Time Collected	03/01/13 11:40

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	1188	B	cfu/100mL		1	1		ADC/FAR	03/01/13 16:30

NELAP #E821059

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Website www.delilab.com

Diversified Environmental Laboratories, Inc.

Report of Laboratory Analysis

DELI Project Number	Test America
130301.02	Project Description: Trail Ridge Landfill

Report Date: March 4, 2013

DELI Sample Number	23917	Matrix	Non Potable Water
Sample Designation	SW-3	Date/Time Collected	03/01/13 12:05

Parameters	Method	Results	Footnote	Units	DF	MDL	PQL	Prep Date/Time	Analyst	Analysis Date/Time
Coliform, Fecal	SM 9222 D	2440	B	cfu/100mL		1	1		ADC/FAR	03/01/13 16:30

NELAP #E821059

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Diversified Environmental Laboratories, Inc.

Report of Laboratory Analysis

DELI Project Number	Test America
130301.02	Project Description: Trail Ridge Landfill

Report Date: March 4, 2013

Footnotes

B	Results based upon colony counts outside the acceptable range.
NA	Not Applicable
ND	Not Detected/None Detected
pH	The QC values are not the %RSD or %Recovery, but are the differences in pH units between a sample duplicate or from a standard. The acceptance criteria is +/- 0.20 pH units.
TNTC	Too Numerous To Count

NELAP #E821059

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3653 Regent Boulevard
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Phone 904.807.9625
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Email info@delilab.com
Website www.delilab.com

Batch No: **B4381**
TestCode: **Coli Fec (MF) 9222D**

Associated Samples: 23915, 23916, 23917

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	---QC Limits--- RPD	LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	---QC Limits--- RPD	MS	Dup RPD	Qualifiers
Parent Sample Number														*23916*	
Coliform, Fecal	<1 U													7.69	
Parent Sample Number															
Coliform, Fecal	<1 U														

* Indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

Footnotes

U Compound was analyzed for, but not detected.

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Phone 904.807.9625
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Email info@delilab.com
Website www.delilab.com

Project Login Form

DELI Project Number: 130301.02 Client Name: Test America

Date Received: 3-1-13 Received by: ADC PLF Completed by: ADC

Courier/Shipper Information:

☒ Client ☐ DEL, Inc. ☐ Other (describe) _____

Type & Number of Shipping Containers:

#	Shipping Container Description	Crushed Ice	Cooler/Ice Temp. C	Sample Cont. Temp. C
1	Cooler Box (Other) Pbag	Yes (No)	—	8.9°C
2	Cooler Box Other:	Yes No		
3	Cooler Box Other:	Yes No		
4	Cooler Box Other:	Yes No		
5	Cooler Box Other:	Yes No		

Note: If thermal preservation was used / required, pick a sample container from each cooler and use the IR gun to measure the sample temperature.

Therm Inv. #: ✓ IR Gun Inv. #: 0332

Other Information Checklist:		YES	NO	NA
1	Were custody seals used for shipping containers(s)?	☐	☐	☑
2	If Yes, were the custody seals intact? If no, see comments below.	☐	☐	☑
3	Were custody seals used for sample containers(s)?	☐	☑	☐
4	If Yes, were the custody seals intact? If no, see comments below.	☐	☐	☑
5	Did custody papers accompany samples? (such as COC, specifics, etc.)	☑	☐	☐
6	Were the custody papers properly filled out?	☐	☑	☐
7	Were the sample containers received in good condition? (If no, see comments)	☑	☐	☐
8	Were the sample container labels properly filled out? (date, time, preservation, etc.)	☑	☐	☐
9	Were the labels on the sample containers and custody papers consistent?	☑	☐	☐
10	Were the samples in the correct containers for analysis?	☑	☐	☐
11	Were the correct preservations used for each sample container according to analysis?	☑	☐	☐
12	Were the samples received within the appropriate holding times?	☑	☐	☐
13	Were pH preservation checks made?	☐	☑	☐
14	Were the sample containers provided by DEL, Inc.?	☐	☑	☐
15	Was this a sample kit provided by DEL, Inc.? If Yes, DEL, Inc. Kit #: _____	☐	☑	☐
16	Were the VOA vials free of headspace? (No bubbles present)	☐	☐	☑

Are the samples acceptable for analysis? YES If yes, proceed with login. If no, notify client immediately and list rejection reasons in comments area below. Also, please take any needed further action for rejected sample(s).

Container Preservation Check:

Note: VOA vials will not be checked for pH at sample login. The testing laboratory will perform that check during analysis. The pH of microbiological samples will not be checked, due to the risk of contamination. The pH of Oil & Grease samples will not be checked during sample login, due to the potential loss of product.

DEL, Inc. Sample Number	Parameters	Cooler/ Container #	pH upon receipt	Was a preservative added after pH check?	If Yes, which preservative was added? (Incl. Vol.)	Preservative Lot #	New pH value	Sample container size & type?
23915	fecal coliform	—	—	Yes / (No)	—	—	—	100 mL P
23917				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				
				Yes / No				

P = Plastic; G = Glass; AG = Amber Glass; TL = Teflon Lid; WM = Wide Mouth

Comments:

#10: wrong date listed for sample date, it is 3-1-13, not 2-29-13.

DELI Project #: 130301.02
sample #: 23915
23916
23917

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica

3/26/2013

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-37330-7749.2
Client Contact: Mr. Michael Smilley	Phone: 225.907.4060	E-Mail: amy.marks@testamericainc.com		Page: Page 2 of 2
Company: Golder Associates Inc.				Job #:
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-492-8105(Tel)	PO #:			
Email: michael_smilley@golder.com	WO #:			
Project Name: Trail Ridge Landfill	Project #: 64005280			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM9222D-Fecal Coliform (Diversified Env't)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
SW-1	2-29	1230	G	W	N		1		
SW-2	2-29	1140	G	W	N		1		
SW-3	2-29	1205	G	W	N		1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 2-29-13 1300	Company PRO-TECH	Received by:	Date/Time: 2/29/13 1304	Company TA		
Relinquished by:	Date/Time: 2/28/13 1851	Company TA	Received by: D. Craft	Date/Time: 3-1-13 1351	Company		
Relinquished by:	Date/Time: 3-1-13	Company	Received by:	Date/Time:	Company		
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: ADC		Cooler Temperature(s) °C and Other Remarks: sample temp 8.9°C				

Environmental Conservation Laboratories, Inc.
10775 Central Port Drive
Orlando FL, 32824
Phone: 407.826.5314 FAX: 407.850.6945
www.encolabs.com

Monday, March 11, 2013

TestAmerica - Tallahassee (TE021)

Attn: Amy Marks

2846 Industrial Plaza Drive

Tallahassee, FL 32301

RE: Laboratory Results for
Project Number: 640-42517, Project Name/Desc: Test America -
ENCO Workorder(s): A301288

Dear Amy Marks,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Saturday, March 2, 2013.

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

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

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. 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,

David Camacho

Project Manager

Enclosure(s)

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	SW-1	Lab ID: A301288-01	Sampled: 03/01/13 12:30	Received: 03/02/13 09:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM 10200H-2001	03/03/13 12:30	03/16/13 03/02/13 10:00	3/8/2013 12:50

Client ID:	SW-2	Lab ID: A301288-02	Sampled: 03/01/13 11:40	Received: 03/02/13 09:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM 10200H-2001	03/03/13 11:40	03/16/13 03/02/13 10:00	3/8/2013 12:50

Client ID:	SW-3	Lab ID: A301288-03	Sampled: 03/01/13 12:05	Received: 03/02/13 09:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM 10200H-2001	03/03/13 12:05	03/16/13 03/02/13 10:00	3/8/2013 12:50

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

SAMPLE DETECTION SUMMARY

Client ID: SW-2			Lab ID: A301288-02				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Chlorophyll a	0.53		0.50	0.50	mg/m3	SM 10200H-2001	

Client ID: SW-3			Lab ID: A301288-03				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Chlorophyll a	2.1		0.50	0.50	mg/m3	SM 10200H-2001	

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

ANALYTICAL RESULTS

Description: SW-1 **Lab Sample ID:** A301288-01 **Received:** 03/02/13 09:25
Matrix: Water **Sampled:** 03/01/13 12:30 **Work Order:** A301288
Project: Test America - **Sampled By:**

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Chlorophyll a [42617-16-3]^	0.50	U	mg/m3	1	0.50	0.50	3C01033	SM 10200H-2001	03/08/13 12:50	MMM	

Description: SW-2 **Lab Sample ID:** A301288-02 **Received:** 03/02/13 09:25
Matrix: Water **Sampled:** 03/01/13 11:40 **Work Order:** A301288
Project: Test America - **Sampled By:**

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Chlorophyll a [42617-16-3]^	**0.53**		mg/m3	1	0.50	0.50	3C01033	SM 10200H-2001	03/08/13 12:50	MMM	

Description: SW-3 **Lab Sample ID:** A301288-03 **Received:** 03/02/13 09:25
Matrix: Water **Sampled:** 03/01/13 12:05 **Work Order:** A301288
Project: Test America - **Sampled By:**

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Chlorophyll a [42617-16-3]^	**2.1**		mg/m3	1	0.50	0.50	3C01033	SM 10200H-2001	03/08/13 12:50	MMM	

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

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 3C01033 - NO PREP

Blank (3C01033-BLK1) Prepared: 03/01/2013 17:05 Analy

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorophyll a	0.50	U	0.50	mg/m3							

Duplicate (3C01033-DUP1) Prepared: 03/01/2013 17:05 Analy

Source: A301246-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorophyll a	35		0.50	mg/m3		36			3	25	

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FLAGS/NOTES AND DEFINITIONS

PQL	PQL: Practical Quantitation Limit.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*****	Not reported due to interference.

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ENCO www.encolabs.com

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-37330-7749.1
Client Contact: Mr. Michael Smiley	Phone: 225 907.4050	E-Mail: amy.marks@testamericainc.com		Page: Page 1 of 2
Company: Golder Associates Inc.				Job #: 640-4125[7]
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341	PO #			
Phone: 770-492-8105(Tel)	WO #			
Email: michael_smiley@golder.com	Project #: 64005280			
Project Name: Trail Ridge Landfill	SSOW#:			
Site: Florida				

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2S03; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E - Mercury	351.2, 350.1, 365.1, Nitrogen, Total	SM4500_NO2_B - Nitrite as N	SUBCONTRACT - SM 10200H-Chlorophyll a	5210B - Biochemical Oxygen Demand	2540C, 2540D	8011 - EDB, DBCP	8260C - Appendix I VOCs	353.2 - NOx / UnionizedNH3	5310C - Total Organic Carbon	4500_P_E_Ortho - ortho-Phosphate	5220D - Chemical Oxygen Demand	6020 - App I Metals (2340B - Hardness)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	S	N	N	N	N	R	N	S	S	N	S	D	X	
SW-1	2-29	1230	G	W	N		3	2	1	2	1	1	3	3	1	3	1	1	1		
SW-2	2-29	1140	G	W	N		3	2	1	2	1	1	3	3	1	3	1	1	1		
SW-3	2-29	1205	G	W	N		3	2	1	2	1	1	3	3	1	3	1	1	1		
TRIP	2-29	—	G	W	N									✓							

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment
Relinquished by: [signature]	Date/Time: 2-29-13 1300	Company: PRO-TECH	Received by: [signature] Date/Time: 3/1/13 1344 Company: TA
Relinquished by	Date/Time: 3/1/13 1630	Company: TA	Received by: [signature] Date/Time: 3/2/13 1030 Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.8° 2.0°

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TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica

3/26/2013

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-37329-8202.1
Client Contact: Mr. Michael Smilley	Phone: 225.907.4060	E-Mail: amy.marks@testamericainc.com		Page:
Company: Golder Associates Inc.				Job #: 640-42469
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341	PO #:			
Phone: 770-492-8105(Tel)	WO #:			
Email: michael_smilley@golder.com	Project #: 64005280			
Project Name: Trail Ridge Landfill SA Groundwater	SSOW#:			
Site: Florida				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	353.2 - Nitrate Nitrite as N	SM4500_NO2_B - Nitrite as N	2540C - Total Dissolved Solids	8011 - EDB, DBCP	8260C - Appendix I VOCs	300.0_28D - Chloride	6020, 7470A	350.1 - Ammonia (as N)	6020 - Dissolved Metals- HOLD						Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	N	R	N	N	D	S	D							
MWB17I	2-27	1030	G	W	N		1	1	1	3	3	1	1	1								TRIP BLANK INCLUDED FOR VOC'S
MWB17D	2-27	0956	G	W	N		1	1	1	3	3	1	1	1								
MWB19S	2-27	0914	G	W	N		1	1	1	3	3	1	1	1								
MWB19I	2-27	0839	G	W	N		1	1	1	3	3	1	1	1								
MWB19D	2-27	0802	G	W	N		1	1	1	3	3	1	1	1								
MWB17S	2-27	1102	G	W	N		1	1	1	3	3	1	1	1								
MWB13I	2-27	1352	G	W	N		1	1	1	3	3	1	1	1								
MWB22S	2-27	1320	G	W	N		1	1	1	3	3	1	1	1								
MWB12S	2-27	1247	G	W	N		1	1	1	3	3	1	1	1								
MWB12I	2-27	1216	G	W	N		1	1	1	3	3	1	1	1								
MWB12D	2-27	1143	G	W	N		1	1	1	3	3	1	1	1								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 2-27-13 1430	Company: PRO-TECH	Received by:	Date/Time: 2/27/13 1430	Company: TA	
Relinquished by:	Date/Time: 2/27/13 1534	Company: TA	Received by:	Date/Time: 2/28/13 .502	Company: TAL	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 6-29-61°	Company:	

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-37329-8202.1
Client Contact: Mr. Michael Smilley	Phone: 225.907.4060	E-Mail: amy.marks@testamericainc.com		Page:
Company: Golder Associates Inc.				Job #: 640-42491
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341	PO #:			
Phone: 770-492-8105(Tel)	WO #:			
Email: michael_smilley@golder.com	Project #: 64005280			
Project Name: Trail Ridge Landfill SA Groundwater	SSOW#:			
Site: Florida				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	353.2 - Nitrate Nitrite as N	SM4500_NO2_B - Nitrite as N	2540C - Total Dissolved Solids	8011 - EDB, DBCP	8260C - Appendix I VOCs	300.0_28D - Chloride	6020, 7470A	350.1 - Ammonia (as N)	6020 - Dissolved Metals- HOLD	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	N	R	N	N	D	S	D		
MWB20S	2-27	1819	G	W	N		1	1	1	3	3	1	1	1			
MWB21S	2-27	1744	G	W	N		1	1	1	3	3	1	1	1			
MWB32D	2-27	1712	G	W	N		1	1	1	3	3	1	1	1			
MWB32I	2-27	1623	G	W	N		1	1	1	3	3	1	1	1			
MWB29S	2-28	1059	G	W	N		1	1	1	3	3	1	1	1			
MWB29I	2-28	1026	G	W	N		1	1	1	3	3	1	1	1			
MWB29D	2-28	0948	G	W	N		1	1	1	3	3	1	1	1			
MWB27S	2-28	0906	G	W	N		1	1	1	3	3	1	1	1			
MWB27I	2-28	0833	G	W	N		1	1	1	3	3	1	1	1			
MWB27D	2-28	0754	G	W	N		1	1	1	3	3	1	1	1			
MWB2I	2-28	1135	G	W	N		1	1	1	3	3	1	1	1			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	2-28-13 1434	PRO-TECH		2/28/13 1434	TA
Relinquished by:	2/28/13 1834	TA		3/1/13 800	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.8, 1.2, 1.1

3/26/2013

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Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica

3/26/2013

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-37329-8202.1
Client Contact: Mr. Michael Smilley	Phone: 225.907.4060	E-Mail: amy.marks@testamericainc.com		Page:
Company: Golder Associates Inc.				Job #: 640-47241
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-492-8105(Tel)	PO #:			
Email: michael_smilley@golder.com	WO #:			
Project Name: Trail Ridge Landfill SA Groundwater	Project #: 64005280			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
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G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

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Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	353.2 - Nitrate Nitrite as N	SM4500_NO2_B - Nitrite as N	2540C - Total Dissolved Solids	8011 - EDB, DBCP	8260C - Appendix I VOCs	300.0_28D - Chloride	6020, 7470A	350.1 - Ammonia (as N)	6020 - Dissolved Metals- HOLD					Total Number of containers	Special Instructions/Note:
Preservation Code:							S	N	N	R	N	N	D	S	D						
MWB3S	2-28	1323	G	W	N		1	1	1	3	3	1	1	1							
MWB31D	2-28	1248	G	W	N		1	1	1	3	3	1	1	1							
MWB2S	2-28	1208	G	W	N		1	1	1	3	3	1	1	1							
MWB3I	2-28	1402	G	W	N		1	1	1	3	3	1	1	1							
TRIP	2-28	—	G	W	N						✓										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		2-28-13 1484	PRO-TECH		2/28/13 1484	TA
2		2/28/13 1836			3/1/13	
3						

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-37329-8202.1
Client Contact: Mr. Michael Smilley	Phone: 225.907.4060	E-Mail: amy.marks@testamericainc.com		Page:
Company: Golder Associates Inc.				Job #: C-40-025716
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341	PO #:			
Phone: 770-492-8105(Tel)	WO #:			
Email: michael_smilley@golder.com	Project #: 64005280			
Project Name: Trail Ridge Landfill SA Groundwater	SSOW#:			
Site: Florida				

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	353.2 - Nitrate Nitrite as N	SM4500_NO2_B - Nitrite as N	2540C - Total Dissolved Solids	8011 - EDB, DBCP	8260C - Appendix I VOCs	300.0_28D - Chloride	6020, 7470A	350.1 - Ammonia (as N)	6020 - Dissolved Metals- HOLD	Total Number of containers	Special Instructions/Note:
Preservation Code:							S	N	N	R	N	N	D	S	D		
FIELD BLANK 01	2-28	1805	G	W	N		1	1	1			1	1	1			
MWB13S	2-28	1747	G	W	N		1	1	1	3	3	1	1	1			
MWB11S	2-28	1720	G	W	N		1	1	1	3	3	1	1	1			
MWB11I (R)	2-28	1646	G	W	N		1	1	1	3	3	1	1	1			
MWB7S	2-28	1612	G	W	N		1	1	1	3	3	1	1	1			
MWB7I	2-28	1539	G	W	N		1	1	1	3	3	1	1	1			
MWB7D	2-28	1503	G	W	N		1	1	1	3	3	1	1	1			
FIELD BLANK 02	2-29	1030	G	W	N		1	1	1	[redacted]		1	1	1			
MWB33S	2-29	1005	G	W	N		1	1	1	3	3	1	1	1			
MWB34S	2-29	0930	G	W	N		1	1	1	3	3	1	1	1			
MWB34I	2-29	0856	G	W	N		1	1	1	3	3	1	1	1			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 2-29-13 1300	Company: PRO-TECH	Received by:	Date/Time: 2/29/13 1300	Company: TA
Relinquished by:	Date/Time: 2/29/13 1688	Company: TA	Received by: E.D.P.	Date/Time: 3/2/13 1630	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.8°, 2.0°, 1.7°

3/26/2013

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica

3/26/2013

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-37329-8202.1
Client Contact: Mr. Michael Smilley	Phone: 225.907.4066	E-Mail: amy.marks@testamericainc.com		Page:
Company: Golder Associates Inc.				Job #: 640-4256
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341				
Phone: 770-492-8105(Tel)	PO #:			
Email: michael_smilley@golder.com	WO #:			
Project Name: Trail Ridge Landfill SA Groundwater	Project #: 64005280			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
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K - EDTA	W - ph 4-5
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Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	353.2 - Nitrate Nitrite as N	SM4500_NO2_B - Nitrite as N	2540C - Total Dissolved Solids	8011 - EDB, DBCP	8260C - Appendix I VOCs	300.0_28D - Chloride	6020, 7470A	350.1 - Ammonia (as N)	6020 - Dissolved Metals- HOLD	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	N	R	N	N	D	S	D		
MWB34D	2-29	0819	G	W	N		1	1	1	3	3	1	1	1			
MWB32S	2-29	1100	G	W	N		1	1	1	3	3	1	1	1			
TRIP	2-29	—	G	W	N						✓						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 2-29-13 1300	Company: PRO-TECH	Received by:	Date/Time: 2/29/13 1700	Company: TA
Relinquished by:	Date/Time: 2/29/13 1600	Company: TA	Received by:	Date/Time: 3/2/13 1030	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica

3/26/2013

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-37330-7749.1
Client Contact: Mr. Michael Smilley	Phone: 225 907.4060	E-Mail: amy.marks@testamericainc.com		Page: Page 1 of 2
Company: Golder Associates Inc.				Job #: 640-41257
Address: 3730 Chamblee Tucker Road	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30341	PO #:			
Phone: 770-492-8105(Tel)	WO #:			
Email: michael_smilley@golder.com	Project #: 64005280			
Project Name: Trail Ridge Landfill	SSOW#:			
Site: Florida				

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E - Mercury	351.2, 350.1, 365.1, Nitrogen,Total	SM4500_NO2_B - Nitrite as N	SUBCONTRACT - SM 10200H-Chlorophyll a	5210B - Biochemical Oxygen Demand	2540C, 2540D	8011 - EDB, DBCP	8260C - Appendix I VOCs	353.2 - NOx / UnionizedNH3	5310C - Total Organic Carbon	4500_P_E_Ortho - ortho-Phosphate	5220D - Chemical Oxygen Demand	6020 - App I Metals /2340B - Hardness	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	N	N	N	N	R	N	S	S	N	S	D		
SW-1	2-29	1230	G	W	N		3	2	1	2	1	1	3	3	1	3	1	1	1		
SW-2	2-29	1140	G	W	N		3	2	1	2	1	1	3	3	1	3	1	1	1		
SW-3	2-29	1205	G	W	N		3	2	1	2	1	1	3	3	1	3	1	1	1		
TRIP	2-29	—	G	W	N									✓							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	2-29-13 1300	PRO-TECH	Received by:	2/29/13 1346	TA
Relinquished by:	2/29/13 1646	TA	Received by:	3/2/13 0830	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.8°, 2.0°

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica

Client Information	Sampler: DAN ARMOUR	Lab PM: Marks, Amy	Carrier Tracking No(s):
Client Contact: Mr. Michael Smilley	Phone: 225.907.4060	E-Mail: amy.marks@testamericainc.com	COC No: 640-37330-7749.2
Company: Golder Associates Inc.			Page: Page 2 of 2
Address: 3730 Chamblee Tucker Road	Due Date Requested:		Job #: 640-42517
City: Atlanta	TAT Requested (days):		
State, Zip: GA, 30341	PO #:		
Phone: 770-492-8105(Tel)	WO #:		
Email: michael_smilley@golder.com	Project #: 64005280		
Project Name: Trail Ridge Landfill	SSOW#:		
Site: Florida			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM9222D-Fecal Coliform (Diversified Env'l)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
SW-1	2-29	1230	G	W	N		1		
SW-2	2-29	1140	G	W	N		1		
SW-3	2-29	1205	G	W	N		1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 2-29-13 / 1300	Company: PRO-TECH	Received by:	Date/Time: 3/2/13 1340	Company: TA		
Relinquished by:	Date/Time: 3/2/13 1600	Company: TA	Received by: E.D.P.	Date/Time: 3/2/13 1630	Company:		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

3/26/2013

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB17I	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 56.13 feet to 60.13 feet	STATIC DEPTH TO WATER (feet): 3.25		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.43			GROUNDWATER ELEVATION (ft NGVD): 135.18		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 60.13 feet) + 0.05 gallons = 0.71 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55.13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55.13	PURGING INITIATED AT: 1007	PURGING ENDED AT: 1030	TOTAL VOLUME PURGED (gallons): 5.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1017	2.64	2.64	0.24	3.38	4.52	22.5	13	0.0	0.88	-133		
1020	0.72	3.36	0.24	3.38	4.53	22.5	13	0.0	1.02	-132		
1023	0.72	4.08	0.24	3.39	4.52	22.4	14	0.0	0.63	-134		
1026	0.72	4.80	0.24	3.39	4.53	22.4	14	0.0	0.67	-134		
1029	0.72	5.52	0.24	3.38	4.52	22.4	15	0.0	1.12	-132	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1030	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 55.13	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB17D	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 117.32 feet to 127.32 feet	STATIC DEPTH TO WATER (feet): 7.09		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.52			GROUNDWATER ELEVATION (ft NGVD): 131.43		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 127.32 feet) + 0.05 gallons = 1.11 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 122.32	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 122.32	PURGING INITIATED AT: 0928	PURGING ENDED AT: 0956		TOTAL VOLUME PURGED (gallons): 7.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0939	3.08	3.08	0.28	8.64	5.19	22.5	35	0.0	1.26	-115		
0943	1.12	4.20	0.28	8.64	5.17	22.5	36	0.0	1.33	-115		
0947	1.12	5.32	0.28	8.64	5.17	22.4	36	0.0	1.19	-114		
0951	1.12	6.44	0.28	8.65	5.19	22.4	36	0.0	0.48	-113		
0955	1.12	7.56	0.28	8.65	5.19	22.4	35	0.0	0.51	-115	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0956		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 122.35	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB19S	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 7.26		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 127.38			GROUNDWATER ELEVATION (ft NGVD): 120.12		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 0854	PURGING ENDED AT: 0914		TOTAL VOLUME PURGED (gallons): 3.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0904	1.80	1.80	0.18	7.31	3.99	22.3	82	0.0	8.93	-112		
0907	0.54	2.34	0.18	7.30	4.01	22.2	82	0.0	8.28	-112		
0910	0.54	2.88	0.18	7.30	4.00	22.2	82	0.0	8.34	-111		
0913	0.54	3.42	0.18	7.31	4.01	22.1	82	0.0	8.16	-112	NONE	TO
											SLT. YELLOW/	
											BROWN TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0914		SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH				
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB19I	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 49 feet to 59 feet	STATIC DEPTH TO WATER (feet): 6.99		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 127.94			GROUNDWATER ELEVATION (ft NGVD): 120.94		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 59.00 feet) + 0.05 gallons = 0.70 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 54.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 54.00	PURGING INITIATED AT: 0815	PURGING ENDED AT: 0839	TOTAL VOLUME PURGED (gallons): 6.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0826	2.75	2.75	0.25	7.08	4.83	22.2	2	0.0	6.03	-107		
0829	0.75	3.50	0.25	7.08	4.82	22.1	2	0.0	5.81	-107		
0832	0.75	4.25	0.25	7.08	4.83	22.1	2	0.0	4.48	-107		
0835	0.95	5.00	0.25	7.10	4.82	22.0	3	0.0	4.25	-107		
0838	0.75	5.75	0.25	7.10	4.82	22.0	3	0.0	4.29	-106	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0839	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 54.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB19D	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 105.5 feet to 115.5 feet	STATIC DEPTH TO WATER (feet): 7.08		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 128.23			GROUNDWATER ELEVATION (ft NGVD): 121.15		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 115.50 feet) + 0.05 gallons = 1.04 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 110.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 110.50	PURGING INITIATED AT: 0734	PURGING ENDED AT: 0802	TOTAL VOLUME PURGED (gallons): 7.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0745	~~1.08~~ 2.97	2.97	0.27	10.14	7.28	21.6	321	0.0	6.98	-52		
0749	1.08	4.05	0.27	10.12	7.29	21.8	323	0.0	6.69	-50		
0753	1.08	5.13	0.27	10.14	7.30	21.8	324	0.0	6.53	-49		
0757	1.08	6.21	0.27	10.15	7.30	21.9	325	0.0	5.59	-52		
0801	1.08	7.29	0.27	10.14	7.31	21.9	325	0.0	6.62	-53	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0802	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 110.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB17S	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	8.3 feet to 18.3 feet	STATIC DEPTH TO WATER (feet):	5.60	PURGE PUMP TYPE OR BAILER:	BP

WELL ELEVATION TOC (ft NGVD):	138.31	GROUNDWATER ELEVATION (ft NGVD):	132.71

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 18.30 feet) + 0.05 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	13.80	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	13.80	PURGING INITIATED AT:	1042	PURGING ENDED AT:	1102	TOTAL VOLUME PURGED (gallons):	3.69

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1052	1.70	1.70	0.17	5.88	5.32	21.8	103	0.4	19.48	-108		
1055	0.51	2.21	0.17	5.88	5.27	21.7	103	0.5	21.23	-107		
1058	0.51	2.72	0.17	5.86	5.28	21.7	103	0.4	20.78	-105		
1101	0.51	3.23	0.17	5.86	5.29	21.7	103	0.5	20.43	-105	BROWN	
											TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1102		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	13.80	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:			FILTER SIZE:	
FIELD DECONTAMINATION: PUMP Y (N)		TUBING Y (N) (replaced)				DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB13 I	SAMPLE ID:		DATE: 2.27-13

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	50.4 feet to 60.4 feet	STATIC DEPTH TO WATER (feet):	9.78		PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	125.98					GROUNDWATER ELEVATION (ft NGVD):	116.20			

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 60.40 feet) + 0.05 gallons = 0.71 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	55.40	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	55.40	PURGING INITIATED AT:	1332	PURGING ENDED AT:	1352		TOTAL VOLUME PURGED (gallons):	4.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1342	2.40	2.40	0.24	9.99	4.97	25.0	24	0.6	3.12	-147		
1345	0.72	3.12	0.24	10.00	4.98	25.0	24	0.6	3.66	-149		
1348	0.72	3.84	0.24	10.00	4.97	24.9	24	0.6	3.52	-146		
1351	0.72	4.56	0.24	10.00	4.97	24.9	25	0.6	3.49	-149	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1352		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	55.40	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:			FILTER SIZE:	
FIELD DECONTAMINATION: PUMP Y (N)		TUBING Y (N) (replaced)				DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB22S	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 16 feet to 26 feet	STATIC DEPTH TO WATER (feet): 12.26		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 126.97			GROUNDWATER ELEVATION (ft NGVD): 114.71		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 26.00 feet) + 0.05 gallons = 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.00	PURGING INITIATED AT: 1300	PURGING ENDED AT: 1320		TOTAL VOLUME PURGED (gallons): 3.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1310	1.90	1.90	0.19	12.69	5.77	21.7	208	0.2	4.03	-147		
1313	0.57	2.47	0.19	12.71	5.77	21.7	209	0.2	3.70	-145		
1316	0.57	3.04	0.19	12.72	5.77	21.8	210	0.2	3.62	-147		
1319	0.57	3.61	0.19	12.72	5.77	21.8	210	0.2	3.70	-147	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1320		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 21.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW B12S	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 14.5 feet to 24.5 feet	STATIC DEPTH TO WATER (feet): 10.87		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.63			GROUNDWATER ELEVATION (ft NGVD): 113.76		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 24.50 feet) + 0.05 gallons = 0.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19.50	PURGING INITIATED AT: 1227	PURGING ENDED AT: 1247		TOTAL VOLUME PURGED (gallons): 3.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1237	1.80	1.80	0.18	11.05	5.43	22.2	160	0.5	38.33	-82		
1240	0.54	2.34	0.18	11.05	5.45	22.2	159	0.5	36.44	-82		
1243	0.54	2.88	0.18	11.05	5.45	22.2	158	0.5	36.28	-80		
1246	0.54	3.42	0.18	11.05	5.45	22.2	157	0.5	36.75	-79	BROWN	
											TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1247		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 19.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB12I	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 61.5 feet to 71.5 feet	STATIC DEPTH TO WATER (feet): 7.22		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.62			GROUNDWATER ELEVATION (ft NGVD): 117.40		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 71.50 feet) + 0.05 gallons = 0.78 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 66.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 66.50	PURGING INITIATED AT: 1153	PURGING ENDED AT: 1216		TOTAL VOLUME PURGED (gallons): 6.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1203	2.80	2.80	0.28	7.32	5.12	24.4	21	0.2	2.59	-98		
1206	0.84	3.64	0.28	7.32	5.10	24.5	22	0.3	1.15	-100		
1209	0.84	4.48	0.28	7.33	5.11	24.6	23	0.3	1.28	-101		
1212	0.84	5.32	0.28	7.33	5.09	24.6	23	0.3	2.38	-103		
1215	0.84	6.16	0.28	7.33	5.12	24.6	24	0.3	2.16	-104	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1216		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 66.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB12D	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 102 feet to 112 feet	STATIC DEPTH TO WATER (feet): 5.25	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.56			GROUNDWATER ELEVATION (ft NGVD): 119.31	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 112.00 feet) + 0.05 gallons = 1.02 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
107.00	107.00	1115	1143		7.56

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1126	2.97	2.97	0.27	5.42	7.04	23.9	360	0.1	5.06	-132		
1130	1.08	4.05	0.27	5.40	7.04	23.9	361	0.1	4.98	-133		
1134	1.08	5.13	0.27	5.41	7.04	23.9	361	0.0	5.46	-132		
1138	1.08	6.21	0.27	5.40	7.03	24.0	362	0.0	5.77	-131		
1142	1.08	7.29	0.27	5.40	7.04	24.0	362	0.0	5.65	-133	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		1143		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
107.00	T			

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MW820S	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	10 feet to 20 feet	STATIC DEPTH TO WATER (feet):	7.45	PURGE PUMP TYPE OR BAILER:	BP

WELL ELEVATION TOC (ft NGVD): 121.01 GROUNDWATER ELEVATION (ft NGVD): 113.56

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	15.00	PURGING INITIATED AT:	1759	PURGING ENDED AT:	1819		TOTAL VOLUME PURGED (gallons):	3.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1809	1.70	1.70	0.17	7.60	4.21	19.6	60	0.0	5.28	-54		
1812	0.51	2.21	0.17	7.63	4.22	19.6	61	0.0	4.16	-57		
1815	0.51	2.72	0.17	7.64	4.20	19.6	61	0.0	3.02	-56		
1818	0.51	3.23	0.17	7.62	4.20	19.7	62	0.0	2.51	-56	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1819	SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	15.00	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:	
FIELD DECONTAMINATION: PUMP Y (N)		TUBING Y (N) (replaced)				DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB21S	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 10.76		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 122.84			GROUNDWATER ELEVATION (ft NGVD): 112.08		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 18.00 feet) + 0.05 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.00	PURGING INITIATED AT: 1724	PURGING ENDED AT: 1744		TOTAL VOLUME PURGED (gallons): 3.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1734	1.70	1.70	0.17	11.22	4.83	21.5	47	0.0	4.25	-146		
1737	0.51	2.21	0.17	11.24	4.82	21.6	48	0.0	3.50	-149		
1740	0.51	2.72	0.17	11.24	4.82	21.6	48	0.0	3.20	-150		
1743	0.51	3.23	0.17	11.24	4.82	21.6	49	0.0	3.91	-146	NONE	TO A
											VERY SLT.	
											YELLOW	TINT

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1744	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 13.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB32D	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 98.8 feet to 108.8 feet	STATIC DEPTH TO WATER (feet): 6.92		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.93			GROUNDWATER ELEVATION (ft NGVD): 118.01		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 108.81 feet) + 0.05 gallons = 1.00 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 103.81	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 103.81	PURGING INITIATED AT: 1644	PURGING ENDED AT: 1712		TOTAL VOLUME PURGED (gallons): 7.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1655	2.97	2.97	0.27	8.32	5.67	21.1	67	0.4	4.18	-129		
1659	1.08	4.05	0.27	8.33	5.66	21.1	68	0.4	3.65	-131		
1703	1.08	5.13	0.27	8.33	5.67	21.1	69	0.4	3.59	-129		
1707	1.08	6.21	0.27	8.33	5.67	21.1	69	0.4	3.68	-128		
1711	1.08	7.29	0.27	8.33	5.68	21.1	70	0.4	3.70	-127	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1712		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 103.81	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB32I	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH	54.56 feet to 64.56 feet	STATIC DEPTH TO WATER (feet):	6.58	PURGE PUMP TYPE OR BAILER:	BP

WELL ELEVATION TOC (ft NGVD): 124.79 GROUNDWATER ELEVATION (ft NGVD): 118.21

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 64.56 feet) + 0.05 gallons = 0.74 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	59.56	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	59.56	PURGING INITIATED AT:	1445	PURGING ENDED AT:	1623	TOTAL VOLUME PURGED (gallons):	14.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1455	2.60	2.60	0.26	6.76					54.74			
1500	1.30	3.90	0.26						61.36			
1505	1.30	5.20	0.26						50.44			
1510	1.30	6.50	0.26						47.67			
1515	1.30	7.80	0.26						33.59			
1520	1.30	9.10	0.26						28.44			
1530	2.60	11.70	0.26	6.79					25.16			
1540	2.60	14.30	0.26						22.84			
1550	2.60	16.90	0.26						19.64			
1600	2.60	19.50	0.26						20.31			
1610	2.60	22.10	0.26	6.80					19.72			

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1623	SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	59.56	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:	

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB32I (CON'T)	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 54.56 feet to 64.56 feet	STATIC DEPTH TO WATER (feet): 6.58		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.79			GROUNDWATER ELEVATION (ft NGVD): 118.21		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 64.56 feet) + 0.05 gallons = 0.79 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.56	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.56	PURGING INITIATED AT: 1445	PURGING ENDED AT: 1623		TOTAL VOLUME PURGED (gallons): 14

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	OD
1613	0.78	11.85	0.26	6.80	5.20	21.1	20	0.2	19.41	-170		
1616	0.78	12.63	0.26	6.81	5.19	21.2	20	0.3	19.48	-167		
1619	0.78	13.41	0.26	6.81	5.18	21.2	20	0.2	19.22	-169		
1622	0.78	14.19	0.26	6.81	5.18	21.2	21	0.3	19.37	-169	SLT. WHITISH TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.8
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.0

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Spec

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1623	SAMPLING ENDED AT: NA
PUMP OR TUBING DEPTH IN WELL (feet): 59.56	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPME CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
X	SEE SAMPLE C-O-C AND BOTTLE ORDER						WORKSHEET		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump, SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB29S	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	10 feet to 20 feet	STATIC DEPTH TO WATER (feet):	7.48	PURGE PUMP TYPE OR BAILER:	BP

WELL ELEVATION TOC (ft NGVD): 138.02 GROUNDWATER ELEVATION (ft NGVD): 130.54

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	15.00	PURGING INITIATED AT:	1039	PURGING ENDED AT:	1059	TOTAL VOLUME PURGED (gallons):	3.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1049	1.80	1.80	0.18	7.57	4.38	18.0	94	0.3	2.13	-110		
1052	0.54	2.34	0.18	7.56	4.40	17.9	94	0.3	1.77	-112		
1055	0.54	2.88	0.18	7.55	4.38	18.0	94	0.3	1.25	-109		
1058	0.54	3.42	0.18	7.57	4.37	17.9	94	0.3	1.14	-108	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1059	SAMPLING ENDED AT:	NR

PUMP OR TUBING DEPTH IN WELL (feet):	15.00	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB29I	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 53.5 feet to 63.5 feet	STATIC DEPTH TO WATER (feet): 4.84		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.08			GROUNDWATER ELEVATION (ft NGVD): 133.24		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 63.50 feet) + 0.05 gallons = 0.73 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 58.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 58.50	PURGING INITIATED AT: 1002	PURGING ENDED AT: 1026		TOTAL VOLUME PURGED (gallons): 6.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1013	2.86	2.86	0.26	5.00	4.97	20.6	29	0.2	13.21	-131		
1016	0.78	3.64	0.26	5.00	4.98	20.6	29	0.2	11.95	-130		
1019	0.78	4.42	0.26	5.02	4.98	20.7	30	0.3	11.96	-130		
1022	0.78	5.20	0.26	5.00	4.95	20.6	30	0.3	11.47	-131		
1025	0.78	5.98	0.26	5.02	4.96	20.6	30	0.3	11.80	-132	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1026		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 58.50	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB29D	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 100.5 feet to 110.5 feet	STATIC DEPTH TO WATER (feet): 4.98		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.18			GROUNDWATER ELEVATION (ft NGVD): 133.20		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 110.50 feet) + 0.05 gallons = 1.01 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 105.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 105.50	PURGING INITIATED AT: 0920	PURGING ENDED AT: 0948		TOTAL VOLUME PURGED (gallons): 7.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0931	2.97	2.97	0.27	5.67	5.42	20.4	54	0.0	3.53	-127		
0935	1.08	4.05	0.27	5.67	5.44	20.4	54	0.0	2.33	-126		
0939	1.08	5.13	0.27	5.68	5.44	20.4	54	0.0	2.76	-128		
0943	1.08	6.21	0.27	5.68	5.45	20.4	54	0.0	2.04	-126		
0947	1.08	7.29	0.27	5.68	5.44	20.4	54	0.0	2.02	-128	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0948	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 105.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB27S	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 5.5 feet to 15.5 feet	STATIC DEPTH TO WATER (feet): 6.02		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 128.42			GROUNDWATER ELEVATION (ft NGVD): 122.40		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 15.50 feet) + 0.05 gallons = 0.44 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.50	PURGING INITIATED AT: 0846	PURGING ENDED AT: 0906		TOTAL VOLUME PURGED (gallons): 3.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0856	1.60	1.60	0.16	6.20	5.33	17.4	121	0.0	11.71	-68		
0859	0.48	~~2.08~~ 2.08	0.16	6.20	5.35	17.4	121	0.0	10.36	-67		
0902	0.48	2.56	0.16	6.20	5.32	17.4	121	0.0	10.17	-67		
0905	0.48	3.04	0.16	6.20	5.33	17.4	121	0.0	10.25	-67	LT. BROWN TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0906		SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH				
PUMP OR TUBING DEPTH IN WELL (feet): 13.50	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB27I	SAMPLE ID:		DATE: 2.28-13

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
2	3/8	52.5 feet to 62.5 feet	5.00		BP

WELL ELEVATION TOC (ft NGVD): 128.63 GROUNDWATER ELEVATION (ft NGVD): 123.63

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 62.50 feet) + 0.05 gallons = 0.73 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
57.50	57.50	0809	0833		6.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0820	2.75	2.75	0.25	5.17	5.36	19.2	25	0.2	5.65	-132		
0823	0.75	3.50	0.25	5.18	5.38	19.3	26	0.3	4.89	-131		
0826	0.75	4.25	0.25	5.17	5.37	19.4	27	0.3	4.76	-133		
0829	0.75	5.00	0.25	5.16	5.38	19.4	27	0.3	5.36	-130		
0832	0.75	5.75	0.25	5.16	5.39	19.4	27	0.3	5.05	-130	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		0833		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
57.50	T			

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB27D	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 100 feet to 110 feet	STATIC DEPTH TO WATER (feet): 5.40		PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 128.88 GROUNDWATER ELEVATION (ft NGVD): 123.48

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 110.00 feet) + 0.05 gallons = 1.01 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 105.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 105.00	PURGING INITIATED AT: 0726	PURGING ENDED AT: 0754	TOTAL VOLUME PURGED (gallons): 7.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0737	2.97	2.97	0.27	5.89	5.74	19.0	55	0.1	0.38	-77		
0741	1.08	4.05	0.27	5.91	5.74	19.0	56	0.1	0.50	-76		
0745	1.08	5.13	0.27	5.91	5.74	18.9	56	0.1	0.35	-77		
0749	1.08	6.21	0.27	5.90	5.76	18.9	58	0.2	0.83	-77		
0753	1.08	7.29	0.27	5.90	5.75	18.9	58	0.1	0.44	-78	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0754	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 105.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB2I	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
2	3/8	51.5 feet to 61.5 feet	8.81		BP

WELL ELEVATION TOC (ft NGVD): 145.73 GROUNDWATER ELEVATION (ft NGVD): 136.92

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 61.50 feet) + 0.05 gallons = 0.72 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
56.50	56.50	1111	1135		6.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1122	2.86	2.86	0.26	8.96	4.58	20.7	29	0.4	1.18	-130		
1125	0.78	3.64	0.26	8.97	4.58	20.6	29	0.4	1.00	-132		
1128	0.78	4.42	0.26	8.97	4.58	20.7	29	0.4	1.60	-130		
1131	0.78	5.20	0.26	8.98	4.57	20.7	29	0.4	1.79	-129		
1134	0.78	5.98	0.26	8.98	4.58	20.6	29	0.4	1.43	-131	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		1135		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
56.50	T			

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW83S	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 8.99		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 154.38			GROUNDWATER ELEVATION (ft NGVD): 145.39		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 1303	PURGING ENDED AT: 1323		TOTAL VOLUME PURGED (gallons): 3.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1313	1.80	1.80	0.18	9.83	3.96	19.5	46	0.7	4.85	59		
1316	0.54	2.34	0.18	9.85	3.94	19.5	46	0.8	3.74	62		
1319	0.54	2.88	0.18	9.85	3.94	19.5	47	0.7	3.98	60		
1322	0.54	3.42	0.18	9.86	3.95	19.5	47	0.7	3.52	61	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1323	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB31D	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 119 feet to 129 feet	STATIC DEPTH TO WATER (feet): 17.68		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 156.15			GROUNDWATER ELEVATION (ft NGVD): 138.47		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 129.00 feet) + 0.05 gallons = 1.12 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 124.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 124.00	PURGING INITIATED AT: 1221	PURGING ENDED AT: 1248		TOTAL VOLUME PURGED (gallons): 8.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1231	3.00	3.00	0.30	21.40	7.16	22.5	337	0.0	6.22	-121		
1235	1.20	4.20	0.30	21.42	7.17	22.4	336	0.0	7.15	-121		
1239	1.20	5.40	0.30	21.43	7.17	22.4	336	0.0	5.98	-119		
1243	1.20	6.60	0.30	21.43	7.16	22.3	336	0.0	6.14	-119		
1247	1.20	7.80	0.30	21.43	7.15	22.4	337	0.0	6.33	-118	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1248	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 124.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB2S	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 8.71		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 146.64			GROUNDWATER ELEVATION (ft NGVD): 137.93		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 1148	PURGING ENDED AT: 1208		TOTAL VOLUME PURGED (gallons): 3.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1158	1.70	1.70	0.17	8.94	4.30	18.9	52	1.0	3.70	35		
1201	0.51	2.21	0.17	8.94	4.30	18.9	52	1.0	3.67	35		
1204	0.51	2.72	0.17	8.95	4.30	18.9	52	1.0	3.98	35		
1207	0.51	3.23	0.17	8.95	4.31	18.9	52	1.0	3.96	33	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1208		SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH				
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MW33I	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
2	3/8	52 feet to 62 feet	13.23		BP

WELL ELEVATION TOC (ft NGVD): 151.86 GROUNDWATER ELEVATION (ft NGVD): 138.63

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 62.00 feet) + 0.05 gallons = 0.72 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
57.00	57.00	1338	1402		6.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1349	2.75	2.75	0.25	14.06	4.17	21.1	30	0.0	2.16	-116		
1352	0.75	3.50	0.25	14.08	4.18	21.2	30	0.0	2.03	-117		
1355	0.75	4.25	0.25	14.05	4.15	21.1	30	0.0	1.91	-115		
1358	0.75	5.00	0.25	14.05	4.16	21.1	30	0.0	2.35	-112		
1401	0.75	5.75	0.25	14.07	4.16	21.1	30	0.0	2.61	-112	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		1402		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
57.00	T			

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB13S	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 16.56 feet to 26.56 feet	STATIC DEPTH TO WATER (feet): 15.04		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 126.06			GROUNDWATER ELEVATION (ft NGVD): 111.02		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 26.56 feet) + 0.05 gallons = 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
21.56	21.56	1729	1747		3.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1737	1.44	1.44	0.18	15.44	5.60	17.0	287	1.0	26.44	50		
1740	0.54	1.98	0.18	15.46	5.58	17.0	284	1.0	22.49	50		
1743	0.54	2.52	0.18	15.46	5.60	17.0	284	1.0	22.83	49		
1746	0.54	3.06	0.18	15.47	5.61	17.1	283	0.9	24.34	47	BROWN TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		1747		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
21.56	T			

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB11S	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	9.5 feet to 19.5 feet	STATIC DEPTH TO WATER (feet):	13.01	PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	120.81					GROUNDWATER ELEVATION (ft NGVD):	107.80		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 19.50 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	14.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	14.50	PURGING INITIATED AT:	1700	PURGING ENDED AT:	1720		TOTAL VOLUME PURGED (gallons):	3.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1710	1.80	1.80	0.18	13.12	3.75	21.5	144	0.0	1.02	20		
1713	0.54	2.34	0.18	13.13	3.75	21.5	144	0.0	1.95	22		
1716	0.54	2.88	0.18	13.13	3.77	21.5	145	0.0	0.98	22		
1719	0.54	3.42	0.18	13.14	3.74	21.5	145	0.0	1.89	22	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1720		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	14.50	TUBING MATERIAL CODE:	T			FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP	Y (N)	TUBING	Y (N) (replaced)			DUPLICATE:	Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB 11I (R)	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 45 feet to 55 feet	STATIC DEPTH TO WATER (feet): 11.19		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 120.43			GROUNDWATER ELEVATION (ft NGVD): 109.24		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 55.00 feet) + 0.05 gallons = 0.68 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 50.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 50.00	PURGING INITIATED AT: 1626	PURGING ENDED AT: 1646		TOTAL VOLUME PURGED (gallons): 4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1636	2.30	2.30	0.23	13.22	4.73	23.6	16	0.1	4.80	-150		
1639	0.69	2.99	0.23	13.22	4.72	23.6	17	0.0	4.92	-150		
1642	0.69	3.68	0.23	13.24	4.72	23.6	17	0.0	4.87	-151		
1645	0.69	4.37	0.23	13.24	4.71	23.6	17	0.0	5.03	-152	LT. BROWN TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1646		SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH				
PUMP OR TUBING DEPTH IN WELL (feet): 50.00	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MWB7S	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
2	3/8	10 feet to 20 feet	8.18		BP

WELL ELEVATION TOC (ft NGVD): 123.29 GROUNDWATER ELEVATION (ft NGVD): 115.11

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
15.00	15.00	1552	1612		3.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1602	1.70	1.70	0.17	8.61	4.63	21.6	138	0.0	17.16	-141		
1605	0.51	2.21	0.17	8.63	4.61	21.6	138	0.0	15.36	-140		
1608	0.51	2.72	0.17	8.61	4.62	21.6	138	0.0	14.27	-143		
1611	0.51	3.23	0.17	8.63	4.62	21.6	135	0.0	14.04	-142	SLT. BROWN TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		1612		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
15.00	T			

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MW87I	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
2	3/8	55 feet to 65 feet	3.34		BP

WELL ELEVATION TOC (ft NGVD): 121.53 GROUNDWATER ELEVATION (ft NGVD): 118.19

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 65.00 feet) + 0.05 gallons = 0.74 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
60.00	60.00	1516	1539		5.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1526	2.50	2.50	0.25	3.40	4.74	22.7	31	0.0	3.79	-153		
1529	0.75	3.25	0.25	3.42	4.74	22.7	31	0.0	3.18	-154		
1532	0.75	4.00	0.25	3.42	4.75	22.7	31	0.0	3.57	-154		
1535	0.75	4.75	0.25	3.42	4.76	22.7	31	0.0	3.03	-154		
1538	0.75	5.50	0.25	3.42	4.76	22.7	31	0.0	2.73	-153	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		1539		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
60.00	T			

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB7D	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 107 feet to 117 feet	STATIC DEPTH TO WATER (feet): 1.41		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 121.65			GROUNDWATER ELEVATION (ft NGVD): 120.24		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 117.00 feet) + 0.05 gallons = 1.05 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 112.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 112.00	PURGING INITIATED AT: 1436	PURGING ENDED AT: 1503	TOTAL VOLUME PURGED (gallons): 7.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1447	3.08	3.08	0.28	1.68	7.52	22.2	323	0.0	1.42	-110		
1451	1.12	4.20	0.28	1.67	7.52	22.2	324	0.0	2.28	-110		
1454	1.12	5.32	0.28	1.67	7.52	22.2	325	0.0	2.52	-113		
1458	1.12	6.44	0.28	1.68	7.52	22.1	324	0.0	2.01	-111		
1502	1.12	7.56	0.28	1.68	7.51	22.1	325	0.0	1.78	-113	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1503	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 112.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB33S	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10.3 feet to 20.3 feet	STATIC DEPTH TO WATER (feet): 10.10		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.90			GROUNDWATER ELEVATION (ft NGVD): 115.80		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.30 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.30	PURGING INITIATED AT: 0945	PURGING ENDED AT: 1005		TOTAL VOLUME PURGED (gallons): 3.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0955	1.70	1.70	0.17	10.32	5.44	20.8	227	0.1	17.44	-110		
0958	0.51	2.21	0.17	10.32	5.43	20.7	227	0.1	18.43	-111		
1001	0.51	2.72	0.17	10.31	5.43	20.8	227	0.2	17.91	-111		
1004	0.51	3.23	0.17	10.30	5.41	20.8	226	0.2	18.07	-112	SLT. YELLOW/BROWN TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1005		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.30	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS: SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB34S	SAMPLE ID:		DATE: 2-29-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 8.36 feet to 18.36 feet	STATIC DEPTH TO WATER (feet): 9.16		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.78			GROUNDWATER ELEVATION (ft NGVD): 116.62		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 18.36 feet) + 0.05 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.36	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.36	PURGING INITIATED AT: 0910	PURGING ENDED AT: 0930		TOTAL VOLUME PURGED (gallons): 3.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0920	1.60	1.60	0.16	10.05	6.24	19.5	792	0.2	3.37	-84		
0923	0.48	2.08	0.16	10.06	6.23	19.6	791	0.3	3.36	-85		
0926	0.48	2.56	0.16	10.06	6.23	19.6	794	0.3	3.17	-85		
0929	0.48	3.04	0.16	10.07	6.23	19.6	791	0.3	3.09	-85	SLT.	
											YELLOW	
											TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0930		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 13.36	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	MW834I	SAMPLE ID:		DATE: 2-28-13

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	43.95 feet to 53.95 feet	STATIC DEPTH TO WATER (feet):	8.15		PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	125.80					GROUNDWATER ELEVATION (ft NGVD):	117.65			

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 53.95 feet) + 0.05 gallons = 0.67 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	48.95	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	48.95	PURGING INITIATED AT:	0833	PURGING ENDED AT:	0856		TOTAL VOLUME PURGED (gallons):	5.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0843	2.40	2.40	0.24	8.42	5.19	22.9	21	0.1	4.73	-127		
0846	0.72	3.12	0.24	8.42	5.18	22.9	21	0.1	4.64	-128		
0849	0.72	3.84	0.24	8.44	5.17	22.8	22	0.1	4.95	-129		
0852	0.72	4.56	0.24	8.44	5.18	22.9	22	0.1	4.41	-126		
0855	0.72	5.28	0.24	8.43	5.18	22.9	22	0.1	4.20	-127	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0856		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	48.95	TUBING MATERIAL CODE:	T			FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION:	PUMP Y (N)	TUBING Y (N) (replaced)				DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW834D	SAMPLE ID:		DATE: 2-29-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 90.78 feet to 100.78 feet	STATIC DEPTH TO WATER (feet): 8.33		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.92			GROUNDWATER ELEVATION (ft NGVD): 117.59		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 100.78 feet) + 0.05 gallons = 0.95 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 95.78	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 95.78	PURGING INITIATED AT: 0750	PURGING ENDED AT: 0819	TOTAL VOLUME PURGED (gallons): 7.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0802	3.00	3.00	0.25	8.71	7.14	22.7	386	0.2	1.39	-63		
0806	1.00	4.00	0.25	8.70	7.13	22.7	389	0.2	1.16	-65		
0810	1.00	5.00	0.25	8.70	7.14	22.8	388	0.2	2.36	-66		
0814	1.00	6.00	0.25	8.72	7.14	22.7	388	0.2	1.67	-64		
0818	1.00	7.00	0.25	8.72	7.13	22.7	390	0.2	1.23	-64	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0819	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 95.78	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB32S	SAMPLE ID:		DATE: 2-29-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 9.9 feet to 19.9 feet	STATIC DEPTH TO WATER (feet): 8.21		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.64			GROUNDWATER ELEVATION (ft NGVD): 116.43		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 19.90 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.90	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.90	PURGING INITIATED AT: ~~1018~~ 1018	PURGING ENDED AT: 1100		TOTAL VOLUME PURGED (gallons): 7.99

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1050	6.08	6.08	0.19	10.36	4.86	21.1	233	0.3	18.28	-117		
1053	0.57	6.65	0.19	10.38	4.85	21.1	234	0.4	15.44	-119		
1056	0.57	7.22	0.19	10.38	4.88	21.1	234	0.3	17.50	-119		
1059	0.57	7.79	0.19	10.38	4.88	21.1	235	0.4	17.43	-119	BROWN TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 14.90	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	SW-1	SAMPLE ID:		DATE: 2-29-13

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
NA	NA		NA		NA

WELL ELEVATION TOC (ft NGVD):	GROUNDWATER ELEVATION (ft NGVD):
NA	NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
NA	NA	NA	NA		NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1230	NA	NA	NA	NA	4.83	14.7	99	5.0	8.56	5	YELLOW TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		1230		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
NA	NA			

FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SW-1 = SURFACE WATER POINT

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	SW-2	SAMPLE ID:		DATE: 2-29-13

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
NA	NA		NA		NA

WELL ELEVATION TOC (ft NGVD): NA — GROUNDWATER ELEVATION (ft NGVD): NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
NA	NA	NA	NA		NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1140	NA	NA	NA	NA	4.14	17.0	64	6.2	9.77	12	YELLOW TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		1140		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
NA	NA			

FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced) — DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SW-2 = SURFACE WATER POINT

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	SW-3	SAMPLE ID:		DATE: 2-27-13

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: – feet to – feet	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
NA	NA		NA		NA

WELL ELEVATION TOC (ft NGVD):	GROUNDWATER ELEVATION (ft NGVD):
NA	NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
NA	NA	NA	NA		NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1205	NA	NA	NA	NA	7.28	17.4	264	5.6	156.3	17	LT. TAN	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / PRO-TECH		1205		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
NA	NA			

FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SW-3 = SURFACE WATER POINT

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

APPENDIX C
HYDRAULIC GRADIENT CALCULATIONS

Appendix C
Hydraulic Gradient Calculations
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-017-SO / WACS ID Number NED/16/00033628

Made by: SSG
Checked by: MJS
Reviewd by: RWP

Purpose: To determine groundwater flow direction and calculate horizontal hydraulic gradients for shallow, intermediate, and deep portions of the surficial aquifer at the Trail Ridge Landfill.

Method for Determination of Horizontal Hydraulic Gradient:

$$i = \frac{\Delta h}{\Delta s} = \frac{GWE_A - GWE_B}{\underline{AB}}$$

Where:

i	Hydraulic gradient (dimensionless)
Δh	Difference of hydraulic head
Δs	Horizontal distance between two points
$GWE_{A, B}$	Groundwater elevation of points A and B (in feet)
$\underline{AB}$	The horizontal distance between points A and B (in feet), where AB is perpendicular to potentiometric contours

Using the following groundwater elevation data:

	GWE_A	GWE_B
Shallow	140' contour	MWB-22(S)
Intermediate	135' contour	MWB-12(I)
Deep	MWB-31(D)	120' contour

	GWE (feet)	ft
MWB-22(S)	114.71	
MWB-12(I)	117.40	
MWB-31(D)	138.45	

Golder Associates

Appendix C
Hydraulic Gradient Calculations
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-017-SO / WACS ID Number NED/16/00033628

Made by: SSG
Checked by: MJS
Reviewd by: RWP

Goal: Calculate the hydraulic gradient for the surficial aquifer - shallow depth

Condition: Static

$$i = \frac{\Delta h}{\Delta s} = \frac{GWE_A - GWE_B}{AB}$$

Shallow gradient:

$$i = \frac{\text{140' contour - MWB-22(S)}}{\text{2600'}} = \frac{\text{140' - 114.71'}}{\text{2500'}}$$

$$i = 0.010 \text{ ft/ft}$$

Intermediate gradient:

$$i = \frac{\text{135' contour - MWB-12(I)}}{\text{1900'}} = \frac{\text{135' - 117.40'}}{\text{1800'}}$$

$$i = 0.009 \text{ ft/ft}$$

Deep gradient:

$$i = \frac{\text{MWB-31(D) -120' contour}}{\text{2400'}} = \frac{\text{138.45' - 120'}}{\text{2600}}$$

$$i = 0.008 \text{ ft/ft}$$

Average gradient:

$$i = 0.009 \text{ ft/ft}$$

Appendix C
Hydraulic Gradient Calculations
Trail Ridge Landfill, Jacksonville, Florida
FDEP Permit 0013493-017-SO / WACS ID Number NED/16/00033628

Made by:	SSG
Checked by:	MJS
Reviewd by:	RWP

Horizontal Hydraulic Gradients:

Shallow horizontal gradient is	0.0100	ft/ft
Intermediate horizontal gradient is	0.0090	ft/ft
Deep horizontal gradient is	0.0080	ft/ft
Average horizontal gradient is	0.0090	ft/ft

Groundwater Flow Direction:

Groundwater flow is to the east, moving perpendicular to potentiometric contours from high to low hydraulic head values.

APPENDIX D
ADAPT DATA PACKAGE
(NOT INCLUDED IN PDF)

APPENDIX E
GROUND WATER MONITORING REPORT CERTIFICATION

To Be Submitted on April 15, 2013